

**CANCER REGISTRY**

# **CANCER INCIDENCE IN SRI LANKA**

**1990**



**SPONSORED BY  
WORLD HEALTH ORGANIZATION**

**CANCER CONTROL PROGRAMME,  
MINISTRY OF HEALTH,  
SRI LANKA**



**CANCER REGISTRY**

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**CANCER CONTROL PROGRAMME  
CANCER INSTITUTE  
MAHARAGAMA,  
SRI LANKA.**

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Cancer registry provides individual core data, tabulations, statistical analysis etc. The statistical analysis and related computer work in preparation of this report is primarily done by Mr. M. G. W. Suraweera, Bio-Statistician attached to Cancer Control Programme under the supervision of the Director.



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## FOREWORD

The present publication on "Cancer Incidence in Sri Lanka 1990" is the fourth of its series. The first was published in 1990 enclosing the cancer registry data for the year 1985.

Cancer epidemiology was handled by the Epidemiology Unit of the Ministry of Health since 1980. National Cancer Control Programme was established by the Ministry of Health with the assistance of the World Health Organization in 1980. However, till 1990 whatever statistics available on cancer was from the Epidemiology Unit of the Ministry of Health. Only in 1990 we were able to prepare the first cancer registry.

These registries consist of statistics obtained from three institutions where cancer patients are treated, i. e. Cancer Institute Maharagama and Cancer Units attached to General Hospital Kandy and Teaching Hospital Galle. In these institutions cancer patients received both in-door and out-door treatment and Radiotherapy facilities are available.

The present cancer registry provides the cancer incidence for the year 1990. It does not provide a community based cancer incidence. Its figures are obtained from the three institutions mentioned above. Approximately about 80% to 90% patients receive Radiotherapy at some stage of the treatment scheduled. These facilities being available only from the above three institutions this register indicates a short fall of 10 - 20% of the actual population based cancer registry. However, this registry being prepared annually, certainly indicates the trend. It provides information regarding primary site, sex, ethnic group etc.

At the first time of this series, present volume provides the mortality information of cancer. However, it does not provide details regarding the primary locations of cancer because these secondary information may not be much accurate for primary locations as the most registrars of deaths who are primarily responsible for recording the cause of death being non-medical persons. Some new features such as geographical distribution, classification of Leukaemia which were introduced in the previous volumes have also been improved. In addition to these it provides several important statistical measures such as age adjusted incidence rates for World Population and Population in Developing Countries, median age, lifetime risk etc. for each primary location of cancer.

Cancer Control Programme is making every attempt to provide more information in our future publications. Our shortcomings if any, could mainly be attributed to limited funds and manpower. Let me thank the WHO for financial assistance for the preparation of this cancer registry and the staff of the Cancer Control Programme for their dedication is making this publication a success.

**Dr. Bernard Randeniya**  
Director  
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Sri Lanka.

## OVERVIEW

About 0.03% of Sri Lankan population contract cancer every year and it was experienced that the incidence of cancer in relation to females is slightly higher than the males. The susceptible age group for a Cancer is mostly between 45-65 years. The lifetime risk of cancer which indicates the likelihood of developing a cancer disease before attaining to 70 years of a person is approximately 5%.

In 1990, total of 6063 cancer cases have been reported to Cancer Institute Maharagama and two other cancer units attached to Kandy and Galle General Hospitals. The distribution of cases among these hospitals was 4560, 1067 and 436 respectively. Total number of cases reported in 1990 is a 21% increase in comparison of 1985.

The total number of natural deaths registered in 1989 was 82,451 in which 5.4% was due to cancer. The crude mortality rate in cancer for the same year was 26.6 while the national mortality rate at 490. The highest mortality in relation to cancer has been reported from 45 – 64 years age group and was 10% of the total deaths reported in the same age group.

In 1990, the leading sites of cancer in relation to males were Oropharyngeal (34.5%), Oesophageal (8.5%), Lung (8.5%) and Larynx (5.4%) and in relation to females were Breast (20.7%), Cervix (17.7%), Oropharyngeal (12.1%), Ovary (6.5%) and Thyroid (5.3%). It is noteworthy that nearly 60% of reported cases of males were tobacco related cancers which are preventable. Of the females nearly 50% of reported cases were cancers in the reproductive system and are mostly curable if diagnosed in early stages.

The paediatric cancers are formed 4.4% of the total cases in 1990. The most leading childhood cancers reported were Acute Lymphoid Leukaemia (37%), Bones and Articular Cartilages (11%) and Brain (10%).

The Clinical Stages before the treatment of 6063 new cancer cases reported were 42.7% localized tumors, 10.7% direct extensions, 17.4% regional lymph node involvements, 7.9% distant metastasis-specific sites, 6.9% of advance stages and 13.9% of unknown. The Treatments provided for these new cancer cases reported that 80.5% Radiotherapy, 33.3% Chemotherapy and 24.5% Surgery.

As in geographical distribution of previous volumes, the patients seeking treatments were heavily scattered over the administrative districts Colombo, Kandy and Galle where the facilities available for treatments. This may be due to the patients in distant places, for their own conveniences the addresses given are close to the institutions. Incidences reported in these districts were 72.0, 57.8 and 46.5 respectively. Incidence of other districts excluding the districts in North-East province, in which the social life is not normal due to war situation, were varying from 15 to 45.

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## MORTALITY IN CANCER 1989

### MORTALITY BY SEX

| Sex    | Deaths Due to Cancer |        | Total Deaths* |        |
|--------|----------------------|--------|---------------|--------|
|        | No.                  | %      | No.           | %      |
| Male   | 2,374                | 53.00  | 49,332        | 59.83  |
| (%)    | (4.81)               |        | (100.0)       |        |
| Female | 2,105                | 47.00  | 33,119        | 40.17  |
| (%)    | (6.35)               |        | (100.00)      |        |
| Total  | 4,479                | 100.00 | 82,451        | 100.00 |
| (%)    | (5.43)               |        | (100.00)      |        |

### MORTALITY BY AGE

| Age   | No. of Deaths due to Cancer | Total No. of Deaths* | Mid year population (in '000) | Age-specific Death Rates (Population 10 <sup>5</sup> ) |        |
|-------|-----------------------------|----------------------|-------------------------------|--|--------|
|       |                             |                      |                               | Cancer   | Total  |
| 0- 4  | 84                          | 8,264                | 2,102                         | 4.0  | 393    |
| 5-14  | 114                         | 1,659                | 3,821                         | 3.0  | 43     |
| 15-24 | 128                         | 1,953                | 3,547                         | 3.6  | 55     |
| 25-44 | 641                         | 7,432                | 4,461                         | 14.4   | 167    |
| 45-64 | 2,071                       | 20,266               | 2,167                         | 95.6   | 935    |
| 65-74 | 1,025                       | 17,627               | 491                           | 208.7  | 3,590  |
| 75+   | 416                         | 25,250               | 236                           | 176.3  | 10,700 |
| Total | 4,479                       | 82,451               | 16,825                        | 26.6   | 490    |

Note: \* Total deaths excluding accidents, suicides, homicides, poisoning etc.

Sources: Registrar-General's Department, Department of Census and Statistics.

## AGE SPECIFIC INCIDENCE OF ALL CANCERS IN 1990

| Age Group         | MALE         |          | FEMALE       |          |
|-------------------|--------------|----------|--------------|----------|
|                   | No. of Cases | ASI Rate | No. of Cases | ASI Rate |
| 0 - 4             | 53           | 4.9      | 33           | 3.2      |
| 5 - 9             | 40           | 4.1      | 30           | 3.2      |
| 10 - 14           | 60           | 6.1      | 48           | 5.1      |
| 15 - 19           | 50           | 5.4      | 37           | 4.1      |
| 20 - 24           | 41           | 4.8      | 52           | 6.0      |
| 25 - 29           | 64           | 8.8      | 76           | 10.5     |
| 30 - 34           | 81           | 12.4     | 139          | 22.0     |
| 35 - 39           | 105          | 21.7     | 240          | 50.4     |
| 40 - 44           | 177          | 42.9     | 280          | 72.4     |
| 45 - 49           | 219          | 61.9     | 377          | 109.3    |
| 50 - 54           | 348          | 107.1    | 379          | 128.0    |
| 55 - 59           | 384          | 151.2    | 402          | 174.8    |
| 60 - 64           | 440          | 208.5    | 335          | 185.1    |
| 65 - 69           | 368          | 240.5    | 325          | 233.8    |
| 70 - 74           | 282          | 251.8    | 176          | 185.3    |
| 74 < =            | 267          | 217.1    | 155          | 134.8    |
| Total             | 2979         |          | 3084         |          |
| Crude Rate        |              | 34.4     |              | 37.0     |
| AAIR (World)      |              | 38.5     |              | 46.9     |
| AAIR (Developing) |              | 33.2     |              | 39.6     |
| Life Time Risk    |              | 4.40%    |              | 5.04%    |

### Statistics

|                      | 1985 |        |       | 1990 |        |       |
|----------------------|------|--------|-------|------|--------|-------|
|                      | Male | Female | Total | Male | Female | Total |
| No.                  | 2564 | 2448   | 5012  | 2979 | 3084   | 6083  |
| Crude Incidence Rate | 31.7 | 31.5   | 31.6  | 34.4 | 37.0   | 35.7  |

### Notes:

ASI Rate : Age Specific Incidence per 100,000 population of Sri Lanka.

AAIR (World) : Age Adjusted Incidence Rate for World Population.  
(incidence per 100,000 to the world standard population.)

AAIR (Developing) : Age Adjusted Incidence Rate for Developing Countries. (incidence per 100,000 population in less developed regions\*.)

\* Less developed regions comprise all regions of Africa, all regions of Latin America, all regions of Asia excluding Japan, Malanesia, Micronesia and Polynesia (Ref. "The Sex and Age Distributions of Population"; 1994 Revision-United Nations).

# NEW CANCER CASES DIAGNOSED IN 1990 BY PRIMARY SITE AND SEX

| ICD O | Primary Site                             | Male |       | Female |       | Total |       |
|-------|--|------|-------|--------|-------|-------|-------|
|       |  | No.  | %     | No.    | %     | No.   | %     |
| 140   | Lip                                      | 19   | 0.6   | 14     | 0.5   | 33    | 0.5   |
| 141   | Tongue                                   | 202  | 6.8   | 69     | 2.2   | 271   | 4.5   |
| 142   | Salivary Gland                           | 24   | 0.8   | 16     | 0.5   | 40    | 0.7   |
| 143   | Gum                                      | 68   | 2.3   | 32     | 1.0   | 100   | 1.6   |
| 144   | Floor of Mouth                           | 41   | 1.4   | 5      | 0.2   | 46    | 0.8   |
| 145   | Other & unspecified Parts of mouth       | 471  | 15.8  | 182    | 5.9   | 653   | 10.8  |
| 146   | Oropharynx                               | 68   | 2.3   | 24     | 0.8   | 92    | 1.5   |
| 147   | Nasopharynx                              | 16   | 0.5   | 6      | 0.2   | 22    | 0.4   |
| 148   | Hypopharynx                              | 111  | 3.7   | 29     | 0.9   | 140   | 2.3   |
| 149   | Pharynx & III Defined Sites              | 32   | 1.1   | 14     | 0.5   | 46    | 0.8   |
| 150   | Oesophagus                               | 254  | 8.5   | 290    | 9.4   | 544   | 9.0   |
| 151   | Stomach                                  | 66   | 2.2   | 39     | 1.3   | 105   | 1.7   |
| 152   | Small Intestine                          | 6    | 0.2   | 2      | 0.1   | 8     | 0.1   |
| 153   | Colon                                    | 39   | 1.3   | 25     | 0.8   | 64    | 1.1   |
| 154   | Rectum, Anal Canal & Anus                | 60   | 2.0   | 54     | 1.8   | 114   | 1.9   |
| 155   | Liver & Intrahepatic Bile Ducts          | 30   | 1.0   | 15     | 0.5   | 45    | 0.7   |
| 156   | Gallbladder & Bile Ducts                 | 5    | 0.2   | 5      | 0.2   | 10    | 0.2   |
| 157   | Pancreas                                 | 24   | 0.8   | 15     | 0.5   | 39    | 0.6   |
| 158   | Retroperitoneum & Peritoneum             | 8    | 0.3   | 2      | 0.1   | 10    | 0.2   |
| 159   | Other Sites within Digestive Organs      | -    | -     | 1      | 0.1   | 1     | 0.0   |
| 160   | Nasal Cavities, Sinuses, Ear             | 46   | 1.5   | 24     | 0.8   | 70    | 1.2   |
| 161   | Larynx                                   | 162  | 5.4   | 27     | 0.9   | 189   | 3.1   |
| 162   | Trachea, Bronchus & Lung                 | 252  | 8.5   | 52     | 1.7   | 304   | 5.0   |
| 163   | Pleura                                   | 1    | 0.1   | -      | -     | 1     | 0.0   |
| 164   | Thymus, Heart & Mediastinum              | 11   | 0.4   | 6      | 0.2   | 17    | 0.3   |
| 169   | Hematopoietic & Reticuloendothelial Sys. | 337  | 11.3  | 234    | 7.6   | 571   | 9.4   |
| 170   | Bones, Joints & Articular Cartilage      | 61   | 2.0   | 43     | 1.4   | 104   | 1.7   |
| 171   | Connective & Other Soft Tissues          | 17   | 0.6   | 6      | 0.2   | 23    | 0.4   |
| 173   | Skin                                     | 69   | 2.3   | 29     | 0.9   | 98    | 1.6   |
| 174   | Female Breast                            | -    | -     | 640    | 20.8  | 640   | 10.6  |
| 175   | Male Breast                              | 14   | 0.5   | -      | -     | 14    | 0.2   |
| 179   | Uterus                                   | -    | -     | 49     | 1.6   | 49    | 0.8   |
| 180   | Cervix Uteri                             | -    | -     | 547    | 17.7  | 547   | 9.0   |
| 182   | Corpus Uteri                             | -    | -     | 19     | 0.6   | 19    | 0.3   |
| 183   | Ovary, Fallopian Tube & Broad Ligament   | -    | -     | 201    | 6.5   | 201   | 3.3   |
| 184   | Other & Female Genital Organs            | -    | -     | 33     | 1.1   | 33    | 0.5   |
| 185   | Prostate Gland                           | 51   | 1.7   | -      | -     | 51    | 0.8   |
| 186   | Testis                                   | 21   | 0.7   | -      | -     | 21    | 0.3   |
| 187   | Penis & Other Genital Organs             | 31   | 1.0   | -      | -     | 31    | 0.5   |
| 188   | Urinary bladder                          | 51   | 1.7   | 19     | 0.6   | 70    | 1.2   |
| 189   | Kidney & Other Urinary Organs            | 27   | 0.9   | 18     | 0.6   | 45    | 0.7   |
| 190   | Eye & Lacrimal Gland                     | 12   | 0.4   | 9      | 0.3   | 21    | 0.3   |
| 191   | Brain                                    | 58   | 1.9   | 26     | 0.8   | 84    | 1.4   |
| 192   | Other & Parts of Nervous System          | 13   | 0.4   | 6      | 0.2   | 19    | 0.3   |
| 193   | Thyroid Gland                            | 62   | 2.1   | 163    | 5.3   | 225   | 3.7   |
| 194   | Other Endocrine Glands                   | 2    | 0.1   | 2      | 0.1   | 4     | 0.1   |
| 195   | Other III-Defined Sites                  | 53   | 1.8   | 40     | 1.3   | 93    | 1.5   |
| 196   | Lymph Nodes                              | 12   | 0.4   | 2      | 0.1   | 14    | 0.2   |
| 199   | Unknown Primary Sites                    | 72   | 2.4   | 50     | 1.6   | 122   | 2.0   |
| TOTAL |  | 2979 | 100.0 | 3084   | 100.0 | 6063  | 100.0 |
| %     |  |      | 49.1  |        | 50.9  |       | 100.0 |

## New Cancer Cases Diagnosed in 1990 by Primary Site and Age

| ICD<br>O | Age |     |       |       |       |       |       |       |       |       |       |       |       |       |       |      | Total | %    |
|----------|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|
|          | <5  | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 | 60-64 | 65-69 | 70-74 | 75<= |       |      |
| 140      |     |     |       | 1     | 1     | 2     | 1     | 1     | 1     |       | 4     | 2     | 6     | 4     | 4     | 6    | 33    | 0.5  |
| 141      |     |     |       |       |       | 1     | 3     | 13    | 10    | 27    | 47    | 39    | 43    | 35    | 24    | 29   | 271   | 4.5  |
| 142      |     |     | 1     | 1     | 2     | 1     | 4     | 7     |       | 3     | 4     | 4     | 5     | 3     | 2     | 3    | 40    | 0.7  |
| 143      |     |     |       |       |       |       | 1     | 2     | 3     | 8     | 15    | 9     | 12    | 14    | 20    | 16   | 100   | 1.6  |
| 144      |     |     |       |       |       |       |       | 1     | 5     | 6     | 3     | 11    | 6     | 7     | 4     | 3    | 46    | 0.8  |
| 145      | 1   |     | 1     |       | 1     | 2     | 5     | 8     | 28    | 45    | 90    | 100   | 122   | 104   | 68    | 78   | 653   | 10.8 |
| 146      |     |     |       |       |       |       |       | 3     | 6     | 7     | 11    | 19    | 18    | 12    | 7     | 9    | 92    | 1.5  |
| 147      |     | 1   | 1     | 2     | 1     |       | 1     | 1     | 2     | 1     | 1     | 5     | 3     | 1     | 1     | 1    | 22    | 0.4  |
| 148      |     |     |       | 1     |       | 2     | 2     | 5     | 9     | 11    | 12    | 26    | 25    | 18    | 16    | 13   | 140   | 2.3  |
| 149      |     |     |       |       |       | 1     | 4     |       | 4     | 4     |       | 5     | 11    | 7     | 4     | 6    | 46    | 0.8  |
| 150      |     |     |       |       |       |       | 6     | 10    | 29    | 53    | 76    | 105   | 83    | 81    | 55    | 46   | 544   | 9.0  |
| 151      |     |     | 1     |       |       | 7     | 1     | 8     | 9     | 11    | 17    | 20    | 11    | 11    | 6     | 3    | 105   | 1.7  |
| 152      |     |     |       |       |       | 1     |       |       |       | 1     | 1     | 3     | 1     |       |       | 1    | 8     | 0.1  |
| 153      |     |     | 2     |       |       | 4     | 1     | 3     | 9     | 3     | 6     | 14    | 8     | 8     | 5     | 1    | 64    | 1.1  |
| 154      |     |     |       | 1     | 1     | 4     | 8     | 9     | 8     | 6     | 14    | 15    | 13    | 15    | 7     | 13   | 114   | 1.9  |
| 155      | 3   | 1   |       | 1     |       | 1     | 3     | 4     | 3     | 7     | 2     | 2     | 8     | 4     | 4     | 2    | 45    | 0.7  |
| 156      |     |     |       |       |       |       | 1     | 3     |       |       | 2     | 1     | 2     | 1     |       |      | 10    | 0.2  |
| 157      |     |     |       |       |       |       |       | 1     | 7     | 4     | 3     | 10    | 7     | 5     | 2     |      | 39    | 0.6  |
| 158      |     |     |       |       |       |       | 1     | 1     | 2     |       | 1     | 1     | 2     |       |       | 1    | 10    | 0.2  |
| 159      |     |     |       |       |       |       |       |       |       |       |       |       |       |       | 1     |      | 1     | 0.0  |
| 160      |     |     | 2     | 1     | 1     | 1     | 5     | 2     | 2     | 2     | 8     | 7     | 15    | 5     | 14    | 5    | 70    | 1.2  |
| 161      |     |     |       | 2     | 3     |       | 1     | 2     | 8     | 15    | 33    | 27    | 28    | 35    | 23    | 12   | 189   | 3.1  |
| 162      |     |     |       |       | 2     |       | 9     | 7     | 21    | 28    | 41    | 40    | 77    | 43    | 26    | 10   | 304   | 5.0  |
| 163      |     |     | 1     |       |       |       |       |       |       |       |       |       |       |       |       |      | 1     | 0.0  |
| 164      |     |     |       | 3     |       | 2     | 2     | 3     | 1     |       | 1     | 3     | 1     | 1     |       |      | 17    | 0.3  |
| 169      | 41  | 41  | 53    | 41    | 28    | 27    | 25    | 38    | 35    | 40    | 37    | 33    | 41    | 38    | 27    | 26   | 571   | 9.4  |
| 170      | 3   | 7   | 18    | 11    | 7     | 8     | 4     | 3     | 4     | 7     | 7     | 10    | 4     | 1     | 5     | 5    | 104   | 1.7  |
| 171      | 1   |     | 1     | 1     | 2     | 1     | 3     |       | 3     | 1     | 2     | 2     | 2     | 4     |       |      | 23    | 0.4  |
| 173      |     |     | 1     | 1     |       | 5     | 5     | 8     | 10    | 9     | 12    | 8     | 7     | 5     | 10    | 17   | 98    | 1.6  |
| 174      |     | 1   |       |       | 2     | 11    | 45    | 82    | 103   | 122   | 77    | 62    | 49    | 39    | 22    | 25   | 640   | 10.6 |
| 175      |     |     |       |       |       |       |       |       | 1     |       | 1     | 3     | 3     | 3     | 2     | 1    | 14    | 0.2  |
| 179      | 1   |     |       | 2     | 3     | 5     | 1     | 5     | 4     | 4     | 8     | 5     | 5     | 4     | 2     |      | 49    | 0.8  |
| 180      | 1   |     |       |       | 3     | 5     | 16    | 40    | 54    | 69    | 84    | 79    | 58    | 72    | 39    | 27   | 547   | 9.0  |
| 182      |     |     |       |       |       |       |       | 1     | 2     | 4     | 3     | 6     | 2     | 1     |       |      | 19    | 0.3  |
| 183      |     |     | 6     | 2     | 6     | 9     | 17    | 19    | 14    | 27    | 31    | 31    | 19    | 12    | 3     | 5    | 201   | 3.3  |
| 184      |     |     |       | 1     |       |       | 1     | 3     | 3     | 2     | 2     | 2     | 6     | 3     | 4     | 6    | 33    | 0.5  |
| 185      |     |     |       | 1     |       |       |       |       | 1     |       |       | 9     | 5     | 16    | 11    | 8    | 51    | 0.8  |
| 186      |     |     |       |       | 2     | 4     |       | 8     | 2     | 2     | 1     |       | 1     | 1     |       |      | 21    | 0.3  |
| 187      |     |     |       |       |       |       | 1     | 3     | 1     | 6     | 3     | 4     | 4     | 3     | 2     | 4    | 31    | 0.5  |
| 188      | 1   |     |       |       |       |       | 1     | 1     | 1     | 10    | 8     | 7     | 9     | 12    | 9     | 11   | 70    | 1.2  |
| 189      | 5   | 1   |       |       |       | 1     | 2     | 1     | 3     | 6     | 6     | 8     | 7     | 2     | 2     | 1    | 45    | 0.7  |
| 190      | 12  | 2   |       |       | 2     |       | 1     | 1     |       | 1     | 1     | 1     |       |       |       |      | 21    | 0.3  |
| 191      | 6   | 9   | 10    | 2     | 4     | 8     | 9     | 9     | 8     | 6     | 8     | 2     | 3     |       |       |      | 84    | 1.4  |
| 192      | 4   | 4   | 2     |       |       |       |       | 4     | 2     | 2     | 1     |       |       |       |       |      | 19    | 0.3  |
| 193      |     | 1   | 1     | 6     | 9     | 23    | 22    | 21    | 22    | 21    | 17    | 21    | 15    | 25    | 10    | 11   | 225   | 3.7  |
| 194      |     |     | 1     |       | 1     |       |       |       | 1     | 1     |       |       |       |       |       |      | 4     | 0.1  |
| 195      | 3   | 2   | 6     | 3     | 5     | 1     | 4     | 2     | 8     | 5     | 10    | 5     | 11    | 15    | 6     | 7    | 93    | 1.5  |
| 196      |     |     |       | 1     |       |       |       |       | 2     | 3     | 1     | 1     | 4     |       |       |      | 14    | 0.2  |
| 199      | 4   |     |       | 2     | 7     | 3     | 4     | 2     | 6     | 7     | 13    | 19    | 16    | 19    | 10    | 10   | 122   | 2.0  |
| Total    | 86  | 70  | 108   | 87    | 93    | 140   | 220   | 345   | 457   | 596   | 727   | 786   | 775   | 693   | 458   | 422  | 6063  |      |
| %        | 1.4 | 1.2 | 1.8   | 1.4   | 1.5   | 2.3   | 3.6   | 5.7   | 7.5   | 9.8   | 12.0  | 13.0  | 12.8  | 11.4  | 7.6   | 7.0  | 100.0 |      |

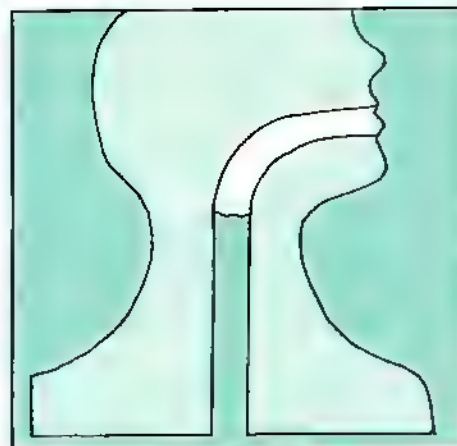
## New Cancer Cases Diagnosed in 1990 by Primary Site and Ethnicity

| ICD-O | Sinhala |          | Tamil |          | Moor |          | Burger |          | Other |          | Total |       |
|-------|---------|----------|-------|----------|------|----------|--------|----------|-------|----------|-------|-------|
|       | No.     | Rate III | No.   | Rate III | No.  | Rate III | No.    | Rate III | No.   | Rate III | No.   | %     |
| 140   | 24      | 0.2      | 6     | 0.2      | 3    | 0.2      |        |          |       |          | 33    | 0.5   |
| 141   | 214     | 1.7      | 43    | 1.4      | 12   | 0.9      | 1      | 2.5      | 1     | 2.0      | 271   | 4.5   |
| 142   | 33      | 0.3      | 5     | 0.2      | 2    | 0.1      |        |          |       |          | 40    | 0.7   |
| 143   | 75      | 0.6      | 22    | 0.7      | 3    | 0.2      |        |          |       |          | 100   | 1.6   |
| 144   | 37      | 0.3      | 7     | 0.2      | 2    | 0.1      |        |          |       |          | 46    | 0.8   |
| 145   | 480     | 3.8      | 130   | 4.3      | 41   | 3.1      | 1      | 2.5      | 1     | 2.0      | 653   | 10.0  |
| 146   | 76      | 0.6      | 12    | 0.4      | 4    | 0.3      |        |          |       |          | 92    | 1.5   |
| 147   | 15      | 0.1      | 4     | 0.1      | 3    | 0.2      |        |          |       |          | 22    | 0.4   |
| 148   | 114     | 0.9      | 17    | 0.6      | 8    | 0.6      |        |          | 1     | 2.0      | 140   | 2.3   |
| 149   | 39      | 0.3      | 4     | 0.1      | 3    | 0.2      |        |          |       |          | 46    | 0.8   |
| 150   | 444     | 3.5      | 82    | 2.7      | 18   | 1.4      |        |          |       |          | 544   | 9.0   |
| 151   | 79      | 0.6      | 18    | 0.6      | 8    | 0.6      |        |          |       |          | 105   | 1.7   |
| 152   | 7       | 0.0      | 1     | 0.0      |      |          |        |          |       |          | 8     | 0.1   |
| 153   | 54      | 0.4      | 3     | 0.1      | 7    | 0.5      |        |          |       |          | 64    | 1.1   |
| 154   | 101     | 0.8      | 10    | 0.3      | 3    | 0.2      |        |          |       |          | 114   | 1.9   |
| 155   | 44      | 0.3      | 1     | 0.0      |      |          |        |          |       |          | 45    | 0.7   |
| 156   | 8       | 0.1      | 2     | 0.1      |      |          |        |          |       |          | 10    | 0.2   |
| 157   | 31      | 0.2      | 6     | 0.2      | 2    | 0.1      |        |          |       |          | 39    | 0.6   |
| 158   | 9       | 0.1      | 1     | 0.0      |      |          |        |          |       |          | 10    | 0.2   |
| 159   | 1       | 0.0      |       |          |      |          |        |          |       |          | 1     | 0.0   |
| 160   | 61      | 0.5      | 6     | 0.2      | 3    | 0.2      |        |          |       |          | 70    | 1.2   |
| 161   | 157     | 1.2      | 21    | 0.7      | 11   | 0.8      |        |          |       |          | 189   | 3.1   |
| 162   | 252     | 2.0      | 23    | 0.7      | 29   | 2.2      |        |          |       |          | 304   | 5.0   |
| 163   | 1       | 0.0      |       |          |      |          |        |          |       |          | 1     | 0.0   |
| 164   | 14      | 0.1      | 2     | 0.1      | 1    | 0.1      |        |          |       |          | 17    | 0.3   |
| 169   | 488     | 3.9      | 40    | 1.3      | 42   | 3.2      | 1      | 2.5      |       |          | 571   | 9.4   |
| 170   | 82      | 0.6      | 14    | 0.5      | 7    | 0.5      |        |          | 1     | 2.0      | 104   | 1.7   |
| 171   | 19      | 0.1      | 2     | 0.1      | 2    | 0.1      |        |          |       |          | 23    | 0.4   |
| 173   | 86      | 0.7      | 9     | 0.3      | 3    | 0.2      |        |          |       |          | 98    | 1.6   |
| 174   | 559     | 4.4      | 42    | 1.4      | 36   | 2.7      | 2      | 5.0      | 1     | 2.0      | 640   | 10.6  |
| 175   | 12      | 0.1      |       |          | 2    | 0.1      |        |          |       |          | 14    | 0.2   |
| 179   | 43      | 0.3      | 1     | 0.0      | 5    | 0.4      |        |          |       |          | 49    | 0.8   |
| 180   | 449     | 3.6      | 78    | 2.6      | 18   | 1.4      | 1      | 2.5      | 1     | 2.0      | 547   | 9.0   |
| 182   | 16      | 0.1      | 2     | 0.1      |      |          | 1      | 2.5      |       |          | 19    | 0.3   |
| 183   | 170     | 1.3      | 20    | 0.7      | 9    | 0.7      | 2      | 5.0      |       |          | 201   | 3.3   |
| 184   | 31      | 0.2      | 1     | 0.0      | 1    | 0.1      |        |          |       |          | 33    | 0.5   |
| 185   | 47      | 0.4      | 2     | 0.1      | 1    | 0.1      | 1      | 2.5      |       |          | 51    | 0.8   |
| 186   | 18      | 0.1      | 3     | 0.1      |      |          |        |          |       |          | 21    | 0.3   |
| 187   | 21      | 0.2      | 10    | 0.3      |      |          |        |          |       |          | 31    | 0.5   |
| 188   | 53      | 0.4      | 13    | 0.4      | 2    | 0.1      | 2      | 5.0      |       |          | 70    | 1.2   |
| 189   | 41      | 0.3      | 3     | 0.1      | 1    | 0.1      |        |          |       |          | 45    | 0.7   |
| 190   | 17      | 0.1      | 2     | 0.1      | 2    | 0.1      |        |          |       |          | 21    | 0.3   |
| 191   | 74      | 0.6      | 5     | 0.2      | 5    | 0.4      |        |          |       |          | 84    | 1.4   |
| 192   | 17      | 0.1      | 1     | 0.0      | 1    | 0.1      |        |          |       |          | 19    | 0.3   |
| 193   | 202     | 1.6      | 14    | 0.5      | 9    | 0.7      |        |          |       |          | 225   | 3.7   |
| 194   | 3       | 0.0      | 1     | 0.0      |      |          |        |          |       |          | 4     | 0.1   |
| 195   | 75      | 0.6      | 5     | 0.2      | 13   | 1.0      |        |          |       |          | 93    | 1.5   |
| 196   | 9       | 0.1      | 4     | 0.1      | 1    | 0.1      |        |          |       |          | 14    | 0.2   |
| 199   | 109     | 0.9      | 8     | 0.3      | 5    | 0.4      |        |          |       |          | 122   | 2.0   |
| TOTAL | 5011    | 39.9     | 706   | 23.3     | 328  | 25.0     | 12     | 30.7     | 6     | 11.3     | 6063  | 100.0 |
| %     | 82.6    |          | 11.6  |          | 5.4  |          | 0.2    |          | 0.1   |          | 100.0 |       |

Rate III: Incidence per 100,00 population according to the ethnic composition of Sri Lanka.

# LIP ORAL CAVITY AND PHARYNX

ICD No. 140, 141, 143 – 149



| Incidence                      |   | Male  | Female |
|--------------------------------|---|-------|--------|
| Crude Rate                     | : | 11.9  | 4.5    |
| Age Adjusted Rate (World)      | : | 13.6  | 5.7    |
| Age Adjusted Rate (Developing) | : | 11.3  | 4.8    |
| Lifetime Risk                  | : | 1.63% | 0.67%  |
| Median Age (Years)             | : | 60.0  | 60.0   |

## Statistics (1985–87)

| Year   | 1985 |       | 1986 |       | 1987 |       |
|--------|------|-------|------|-------|------|-------|
|        | No.  | C.R.* | No.  | C.R.* | No.  | C.R.* |
| Male   | 1007 | 12.5  | 946  | 11.5  | 854  | 10.2  |
| Female | 209  | 3.7   | 335  | 4.2   | 332  | 4.1   |

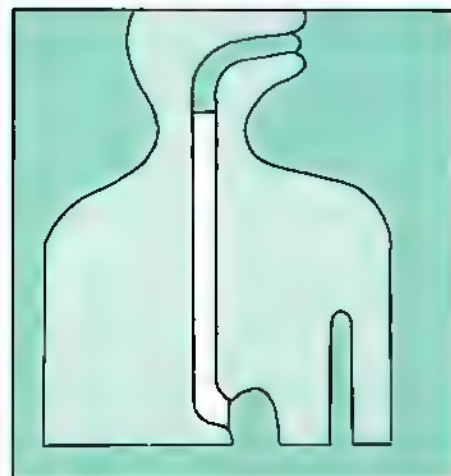
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 – 4     | 1      | 0.1       | —      | —         |
| 5 – 9     | —      | —         | 1      | 0.1       |
| 10 – 14   | 2      | 0.2       | 3      | 0.3       |
| 15 – 19   | 1      | 0.1       | 2      | 0.2       |
| 20 – 24   | 1      | 0.1       | 2      | 0.2       |
| 25 – 29   | 6      | 0.8       | 7      | 1.0       |
| 30 – 34   | 10     | 1.5       | 14     | 2.2       |
| 35 – 39   | 20     | 4.1       | 21     | 4.4       |
| 40 – 44   | 47     | 11.4      | 38     | 9.8       |
| 45 – 49   | 71     | 20.1      | 50     | 14.5      |
| 50 – 54   | 133    | 40.9      | 49     | 16.6      |
| 55 – 59   | 167    | 65.7      | 65     | 28.3      |
| 60 – 64   | 181    | 85.8      | 56     | 30.9      |
| 65 – 69   | 146    | 95.4      | 35     | 25.2      |
| 70 – 74   | 113    | 100.9     | 32     | 33.7      |
| 75 <=     | 129    | 104.9     | —      | —         |
| Total     | 1028   | 11.9      | 375    | 4.5       |

(Incidence: per 100,000 Population)

(\* C. R. : Crude incidence rate)

# OESOPHAGUS

ICD No. 150



| Incidence                      | Male  | Female |
|--------------------------------|-------|--------|
| Crude Rate                     | 2.9   | 3.5    |
| Age Adjusted Rate (World)      | 3.3   | 4.7    |
| Age Adjusted Rate (Developing) | 2.8   | 3.8    |
| Lifetime Risk                  | 0.40% | 0.56%  |
| Median Age (Years)             | 60.0  | 58.0   |

Statistics (1985 – 87)

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Male   | 195  | 2.4    | 209  | 2.5    | 213  | 2.6    |
| Female | 246  | 3.2    | 266  | 3.4    | 267  | 3.3    |

| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 – 4     | –      | –         | –      | –         |
| 5 – 9     | –      | –         | –      | –         |
| 10 – 14   | –      | –         | –      | –         |
| 15 – 19   | –      | –         | –      | –         |
| 20 – 24   | –      | –         | –      | –         |
| 25 – 29   | –      | –         | –      | –         |
| 30 – 34   | 3      | 0.5       | 3      | 0.5       |
| 35 – 39   | 2      | 0.4       | 8      | 1.7       |
| 40 – 44   | 12     | 2.9       | 17     | 4.4       |
| 45 – 49   | 21     | 5.9       | 32     | 9.3       |
| 50 – 54   | 35     | 10.8      | 41     | 13.9      |
| 55 – 59   | 44     | 17.3      | 61     | 26.5      |
| 60 – 64   | 42     | 19.9      | 41     | 22.7      |
| 65 – 69   | 35     | 22.9      | 46     | 33.1      |
| 70 – 74   | 32     | 28.6      | 23     | 24.2      |
| 75 <=     | 28     | 22.3      | 18     | 15.7      |
| Total     | 254    | 2.9       | 290    | 3.5       |

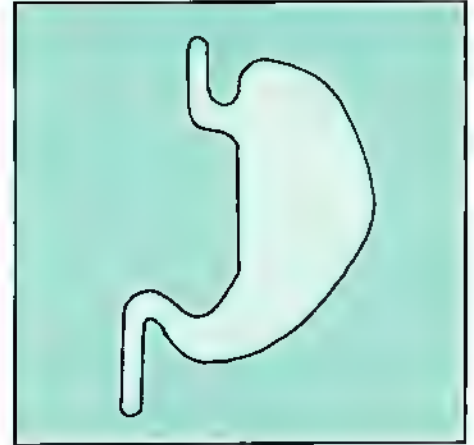
(Incidence: per 100,000 Population)

(\* C. R. : Crude incidence rate)



# STOMACH

ICD No. 151



| Incidence                      |   | Male  | Female |
|--------------------------------|---|-------|--------|
| Crude Rate                     | : | 0.8   | 0.5    |
| Age Adjusted Rate (World)      | : | 0.9   | 0.6    |
| Age Adjusted Rate (Developing) | : | 0.8   | 0.5    |
| Lifetime Risk                  | : | 0.10% | 0.08%  |
| Median Age (Years)             | : | 52.0  | 56.0   |

## Statistics (1985 – 87)

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Male   | 57   | 0.7    | 63   | 0.8    | 40   | 0.5    |
| Female | 29   | 0.4    | 17   | 0.3    | 23   | 0.3    |

| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 – 4     | –      | –         | –      | –         |
| 5 – 9     | –      | –         | –      | –         |
| 10 – 14   | 1      | 0.1       | –      | –         |
| 15 – 19   | –      | –         | –      | –         |
| 20 – 24   | –      | –         | –      | –         |
| 25 – 29   | 7      | 1.0       | –      | –         |
| 30 – 34   | 1      | 0.2       | –      | –         |
| 35 – 39   | 7      | 1.4       | 1      | 0.2       |
| 40 – 44   | 5      | 1.2       | 4      | 1.0       |
| 45 – 49   | 7      | 2.0       | 4      | 1.2       |
| 50 – 54   | 11     | 3.4       | 6      | 2.1       |
| 55 – 59   | 8      | 3.1       | 12     | 5.2       |
| 60 – 64   | 6      | 2.8       | 5      | 2.8       |
| 65 – 69   | 7      | 4.6       | 4      | 2.9       |
| 70 – 74   | 4      | 3.6       | 2      | 2.1       |
| 75 <=     | 2      | 1.6       | 1      | 0.9       |
| Total     | 66     | 0.8       | 39     | 0.5       |

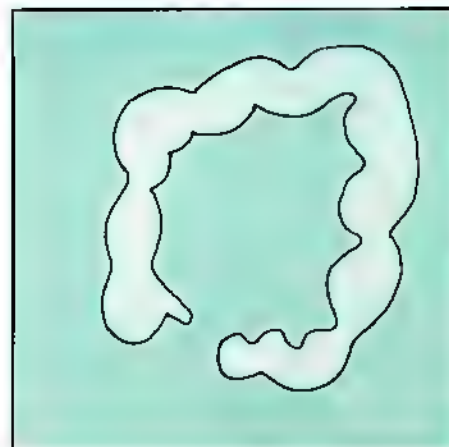
(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)



# COLON

ICD No. 153



| Incidence                      |   | Male  | Female |
|--------------------------------|---|-------|--------|
| Crude Rate                     | : | 0.5   | 0.3    |
| Age Adjusted Rate (World)      | : | 0.5   | 0.4    |
| Age Adjusted Rate (Developing) | : | 0.4   | 0.3    |
| Lifetime Risk                  | : | 0.05% | 0.05%  |
| Median Age (Years)             | : | 53.0  | 55.0   |

## Statistics (1985 – 87)

| Year   |     | 1985   |     | 1986   |     | 1987 |  |
|--------|-----|--------|-----|--------|-----|------|--|
|        | No. | C. R.* | No. | C. R.* | No. | C.R  |  |
| Male   | 27  | 0.3    | 29  | 0.4    | 23  | 0.3  |  |
| Female | 21  | 0.3    | 14  | 0.2    | 12  | 0.1  |  |

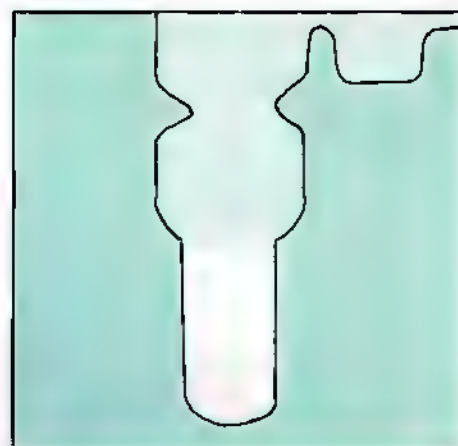
| Male      |        |           | Female |           |
|-----------|--------|-----------|--------|-----------|
| Age Group | Number | Incidence | Number | Incidence |
| 0 – 4     | –      | –         | –      | –         |
| 5 – 9     | –      | –         | –      | –         |
| 10 – 14   | 2      | 0.2       | –      | –         |
| 15 – 19   | –      | –         | –      | –         |
| 20 – 24   | –      | –         | –      | –         |
| 25 – 29   | 2      | 0.3       | 2      | 0.3       |
| 30 – 34   | 1      | 0.2       | –      | –         |
| 35 – 39   | 2      | 0.4       | 1      | 0.2       |
| 40 – 44   | 6      | 1.5       | 3      | 0.8       |
| 45 – 49   | 3      | 0.8       | –      | –         |
| 50 – 54   | 4      | 1.2       | 2      | 0.7       |
| 55 – 59   | 5      | 2.0       | 9      | 3.9       |
| 60 – 64   | 4      | 1.9       | 4      | 2.2       |
| 65 – 69   | 4      | 2.6       | 4      | 2.9       |
| 70 – 74   | 5      | 4.5       | –      | –         |
| 75 <=     | 1      | 0.8       | –      | –         |
| Total     | 39     | 0.5       | 25     | 0.3       |

Incidence: per 100,000 Population)

(\* C.R. : Crude incidence rate)

# RECTUM

ICD No. 154



| Incidence                      |   | Male  | Female |
|--------------------------------|---|-------|--------|
| Crude Rate                     | : | 0.7   | 0.6    |
| Age Adjusted Rate (World)      | : | 0.8   | 0.8    |
| Age Adjusted Rate (Developing) | : | 0.7   | 0.7    |
| Lifetime Risk                  | : | 0.08% | 0.10%  |
| Median Age (Years)             | : | 59.0  | 55.0   |

## Statistics (1985 - 87)

| Year   | 1985 |        | 1986 |        | 1987 |       |
|--------|------|--------|------|--------|------|-------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C.R.* |
| Male   | 40   | 0.5    | 39   | 0.5    | 34   | 0.4   |
| Female | 31   | 0.4    | 22   | 0.3    | 34   | 0.4   |

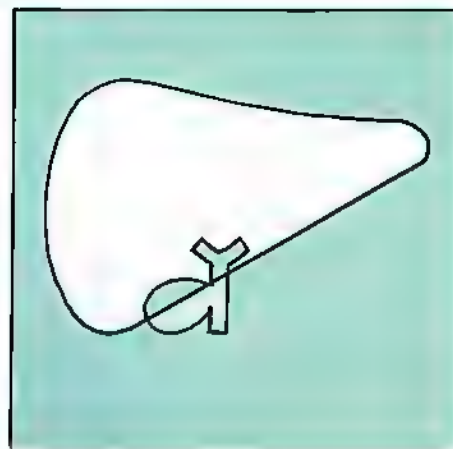
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 - 4     | —      | —         | —      | —         |
| 5 - 9     | —      | —         | —      | —         |
| 10 - 14   | —      | —         | —      | —         |
| 15 - 19   | 1      | 0.1       | —      | —         |
| 20 - 24   | 1      | 0.1       | —      | —         |
| 25 - 29   | 2      | 0.3       | 2      | 0.3       |
| 30 - 34   | 3      | 0.5       | 5      | 0.8       |
| 35 - 39   | 7      | 1.4       | 2      | 0.4       |
| 40 - 44   | 6      | 1.5       | 2      | 0.5       |
| 45 - 49   | 1      | 0.3       | 5      | 1.4       |
| 50 - 54   | 6      | 1.8       | 8      | 2.7       |
| 55 - 59   | 5      | 2.0       | 10     | 4.3       |
| 60 - 64   | 6      | 2.8       | 7      | 3.9       |
| 65 - 69   | 8      | 5.5       | 7      | 5.0       |
| 70 - 74   | 5      | 4.5       | 2      | 2.1       |
| 75 <=     | 9      | 7.3       | 4      | 3.5       |
| Total     | 60     | 0.7       | 54     | 0.6       |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# LIVER

ICD No. 155



|                                |   |       |        |
|--------------------------------|---|-------|--------|
| Incidence                      | : | Male  | Female |
| Crude Rate                     | : | 0.3   | 0.2    |
| Age Adjusted Rate (World)      | : | 0.4   | 0.2    |
| Age Adjusted Rate (Developing) | : | 0.3   | 0.2    |
| Lifetime Risk                  | : | 0.04% | 0.02%  |
| Median Age (Years)             | : | 55.5  | 45.0   |

## Statistics (1985 – 87)

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Male   | 31   | 0.4    | 24   | 0.3    | 31   | 0.4    |
| Female | 16   | 0.2    | 4    | 0.1    | 18   | 0.2    |

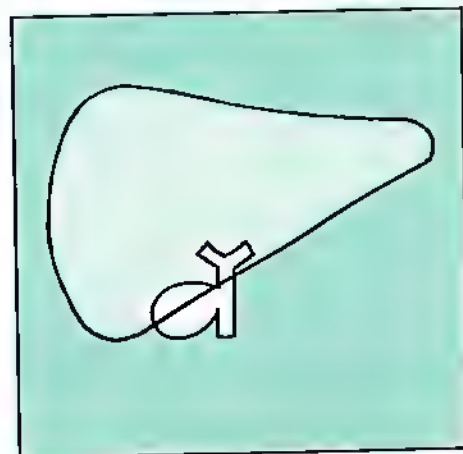
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 – 4     | 1      | 0.1       | 2      | 0.2       |
| 5 – 9     | –      | –         | 1      | 0.1       |
| 10 – 14   | –      | –         | –      | –         |
| 15 – 19   | –      | –         | 1      | 0.1       |
| 20 – 24   | –      | –         | –      | –         |
| 25 – 29   | 1      | 0.1       | –      | –         |
| 30 – 34   | 2      | 0.3       | 1      | 0.2       |
| 35 – 39   | 3      | 0.6       | 1      | 0.2       |
| 40 – 44   | 2      | 0.5       | 1      | 0.3       |
| 45 – 49   | 4      | 1.1       | 3      | 0.9       |
| 50 – 54   | 1      | 0.3       | 1      | 0.3       |
| 55 – 59   | 2      | 0.8       | –      | –         |
| 60 – 64   | 6      | 2.8       | 2      | 1.1       |
| 65 – 69   | 3      | 2.0       | 1      | 0.7       |
| 70 – 74   | 3      | 2.7       | 1      | 1.1       |
| 75 <=     | 2      | 1.6       | –      | –         |
| Total     | 30     | 0.3       | 15     | 0.2       |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# GALLBLADDER

ICD No. 156



| Incidence                      | Male  | Female |
|--------------------------------|-------|--------|
| Crude Rate                     | 0.1   | 0.1    |
| Age Adjusted Rate (World)      | 0.1   | 0.1    |
| Age Adjusted Rate (Developing) | 0.1   | 0.1    |
| Lifetime Risk                  | 0.01% | 0.01%  |
| Median Age (Years)             | 55.0  | 36.0   |

## Statistics (1985 - 87)

| Year   | 1985 |        | 1986 |        | 1987 |      |
|--------|------|--------|------|--------|------|------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C.R. |
| Male   | 6    | 0.1    | 3    | 0.0    | 5    | 0.1  |
| Female | 6    | 0.1    | 6    | 0.1    | 6    | 0.1  |

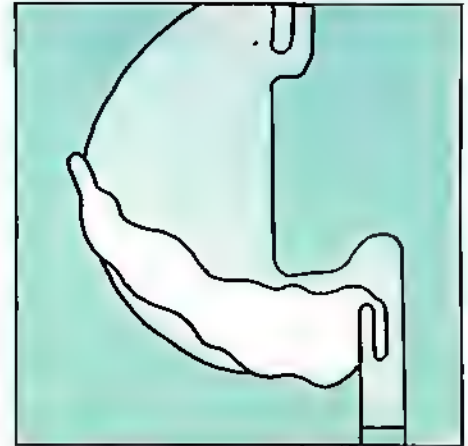
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 - 4     | -      | -         | -      | -         |
| 5 - 9     | -      | -         | -      | -         |
| 10 - 14   | -      | -         | -      | -         |
| 15 - 19   | -      | -         | -      | -         |
| 20 - 24   | -      | -         | -      | -         |
| 25 - 29   | -      | -         | -      | -         |
| 30 - 34   | 1      | 0.2       | 3      | 0.6       |
| 35 - 39   | -      | -         | -      | -         |
| 40 - 44   | -      | -         | -      | -         |
| 45 - 49   | -      | -         | -      | -         |
| 50 - 54   | 1      | 0.3       | 1      | 0.3       |
| 55 - 59   | 1      | 0.4       | -      | -         |
| 60 - 64   | 2      | 0.9       | -      | -         |
| 65 - 69   | -      | -         | 1      | 0.7       |
| 70 - 74   | -      | -         | -      | -         |
| 75 <=     | 5      | 0.1       | 5      | 0.1       |
| Total     |        |           |        |           |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# PANCREAS

ICD No. 157



|                                |   |       |        |
|--------------------------------|---|-------|--------|
| Incidence                      | : | Male  | Female |
| Crude Rate                     | : | 0.3   | 0.2    |
| Age Adjusted Rate (World)      | : | 0.3   | 0.2    |
| Age Adjusted Rate (Developing) | : | 0.3   | 0.2    |
| Lifetime Risk                  | : | 0.04% | 0.03%  |
| Median Age (Years)             | : | 55.0  | 66.0   |

## Statistics (1985 - 87)

| Year   | 1985 |        | 1986 |        | 1987 |       |
|--------|------|--------|------|--------|------|-------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C.R.* |
| Male   | 12   | 0.1    | 11   | 0.1    | 8    | 0.1   |
| Female | 8    | 0.1    | 7    | 0.1    | 10   | 0.1   |

| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 - 4     | —      | —         | —      | —         |
| 5 - 9     | —      | —         | —      | —         |
| 10 - 14   | —      | —         | —      | —         |
| 15 - 19   | —      | —         | —      | —         |
| 20 - 24   | —      | —         | —      | —         |
| 25 - 29   | —      | —         | —      | —         |
| 30 - 34   | —      | —         | —      | —         |
| 35 - 39   | 1      | 0.2       | —      | —         |
| 40 - 44   | 5      | 1.2       | 2      | 0.5       |
| 45 - 49   | 2      | 0.6       | 2      | 0.6       |
| 50 - 54   | 3      | 0.9       | —      | —         |
| 55 - 59   | 7      | 2.8       | 3      | 1.3       |
| 60 - 64   | 3      | 1.4       | 4      | 2.2       |
| 65 - 69   | 2      | 1.3       | 3      | 2.2       |
| 70 - 74   | 1      | 0.9       | 1      | 1.1       |
| 75 <=     | —      | —         | —      | —         |
| Total     | 24     | 0.3       | 15     | 0.2       |

Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

## NASAL CAVITIES

ICD No. 160



| Incidence                      |   | Male  | Female |
|--------------------------------|---|-------|--------|
| Crude Rate                     | : | 0.5   | 0.3    |
| Age Adjusted Rate (World)      | : | 0.6   | 0.4    |
| Age Adjusted Rate (Developing) | : | 0.5   | 0.3    |
| Lifetime Risk                  | : | 0.06% | 0.04%  |
| Median Age (Years)             | : | 61.0  | 60.0   |

Statistics (1985 – 87)

| Year   | 1985 |        | 1986 |        | 1987 |       |
|--------|------|--------|------|--------|------|-------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C.R.* |
| Male   | 24   | 0.3    | 25   | 0.3    | 18   | 0.2   |
| Female | 12   | 0.2    | 19   | 0.2    | 23   | 0.3   |

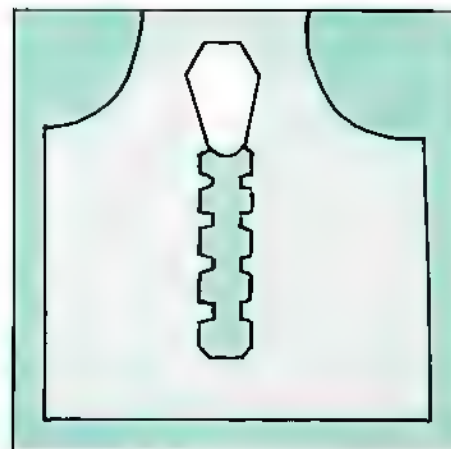
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 – 4     | –      | –         | –      | –         |
| 5 – 9     | –      | –         | –      | –         |
| 10 – 14   | 2      | 0.2       | –      | –         |
| 15 – 19   | 1      | 0.1       | –      | –         |
| 20 – 24   | 1      | 0.1       | –      | –         |
| 25 – 29   | –      | –         | 1      | 0.1       |
| 30 – 34   | 1      | 0.2       | 4      | 0.6       |
| 35 – 39   | –      | –         | 2      | 0.4       |
| 40 – 44   | –      | –         | 2      | 0.5       |
| 45 – 49   | 1      | 0.3       | 1      | 0.3       |
| 50 – 54   | 7      | 2.2       | 1      | 0.3       |
| 55 – 59   | 7      | 2.8       | –      | –         |
| 60 – 64   | 10     | 4.7       | 5      | 2.8       |
| 65 – 69   | 2      | 1.3       | 3      | 2.2       |
| 70 – 74   | 10     | 8.9       | 4      | 4.2       |
| 75 <=     | 4      | 3.3       | 1      | 0.9       |
| Total     | 46     | 0.5       | 24     | 0.3       |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# LARYNX

ICD No. 161



| Incidence                      |   | Male  | Female |
|--------------------------------|---|-------|--------|
| Crude Rate                     | : | 1.9   | 0.3    |
| Age Adjusted Rate (World)      | : | 2.1   | 0.4    |
| Age Adjusted Rate (Developing) | : | 1.8   | 0.3    |
| Lifetime Risk                  | : | 0.28% | 0.04%  |
| Median Age (Years)             | : | 60.0  | 56.0   |

## Statistics (1985 – 87)

| Year   | 1985 |        | 1986 |        | 1987 |       |
|--------|------|--------|------|--------|------|-------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C.R.* |
| Male   | 104  | 1.3    | 126  | 1.5    | 133  | 1.6   |
| Female | 20   | 0.3    | 20   | 0.3    | 17   | 0.2   |

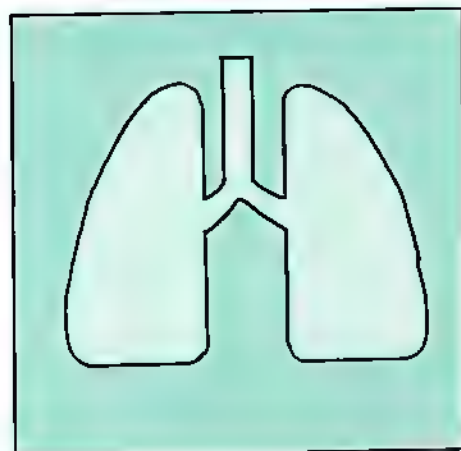
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 – 4     | –      | –         | –      | –         |
| 5 – 9     | –      | –         | –      | –         |
| 10 – 14   | –      | –         | –      | –         |
| 15 – 19   | 1      | 0.1       | 1      | 0.1       |
| 20 – 24   | 1      | 0.1       | 2      | 0.2       |
| 25 – 29   | –      | –         | –      | –         |
| 30 – 34   | 1      | 0.2       | –      | –         |
| 35 – 39   | 1      | 0.2       | 1      | 0.2       |
| 40 – 44   | 8      | 1.9       | –      | –         |
| 45 – 49   | 11     | 3.1       | 4      | 1.2       |
| 50 – 54   | 30     | 9.2       | 3      | 1.0       |
| 55 – 59   | 21     | 8.3       | 6      | 2.6       |
| 60 – 64   | 25     | 11.8      | 3      | 1.7       |
| 65 – 69   | 34     | 22.2      | 1      | 0.7       |
| 70 – 74   | 21     | 18.8      | 2      | 2.1       |
| 75 <=     | 8      | 6.5       | 4      | 3.5       |
| Total     | 162    | 1.9       | 27     | 0.3       |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# LUNG, BRONCHUS AND PLEURA

ICD No. 162, 163



| Incidence                      | Male  | Female |
|--------------------------------|-------|--------|
| Crude Rate                     | 2.9   | 0.6    |
| Age Adjusted Rate (World)      | 3.3   | 0.8    |
| Age Adjusted Rate (Developing) | 2.8   | 0.7    |
| Lifetime Risk                  | 0.45% | 0.10%  |
| Median Age (Years)             | 60.0  | 58.0   |

## Statistics (1985 - 87)

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Male   | 165  | 2.0    | 175  | 2.1    | 185  | 2.2    |
| Female | 29   | 0.4    | 41   | 0.5    | 43   | 0.5    |

| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 - 4     | —      | —         | —      | —         |
| 5 - 9     | —      | —         | —      | —         |
| 10 - 14   | 1      | 0.1       | —      | —         |
| 15 - 19   | —      | —         | —      | —         |
| 20 - 24   | 1      | 0.1       | 1      | 0.1       |
| 25 - 29   | —      | —         | —      | —         |
| 30 - 34   | 7      | 1.1       | 2      | 0.3       |
| 35 - 39   | 3      | 0.6       | 4      | 0.8       |
| 40 - 44   | 16     | 3.9       | 5      | 1.3       |
| 45 - 49   | 26     | 7.3       | 2      | 0.6       |
| 50 - 54   | 35     | 10.8      | 6      | 2.0       |
| 55 - 59   | 32     | 12.6      | 8      | 3.5       |
| 60 - 64   | 67     | 31.8      | 10     | 5.5       |
| 65 - 69   | 35     | 22.9      | 8      | 5.8       |
| 70 - 74   | 23     | 20.5      | 3      | 3.2       |
| 75 <=     | 7      | 5.5       | 3      | 2.6       |
| Total     | 253    | 2.9       | 52     | 0.6       |

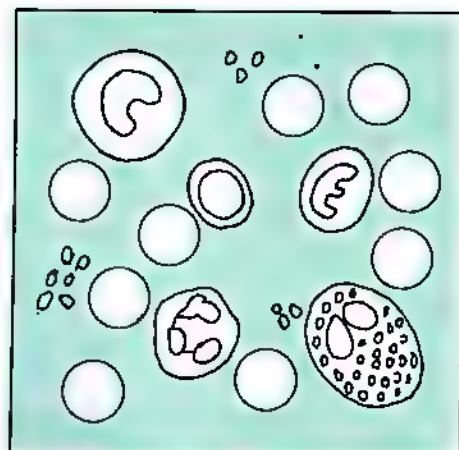
(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)



# HEMATOPOIETIC AND RETICULOENDOTHELIAL SYSTEM

ICD No. 169



| Incidence                      |   | Male  | Female |
|--------------------------------|---|-------|--------|
| Crude Rate                     | : | 3.9   | 2.8    |
| Age Adjusted Rate (World)      | : | 4.0   | 3.3    |
| Age Adjusted Rate (Developing) | : | 3.8   | 2.9    |
| Lifetime Risk                  | : | 0.33% | 0.31%  |
| Median Age (Years)             | : | 37.0  | 40.0   |

Statistics (1985 - 87)

| Year   | 1985 |        | 1986 |        | 1987 |       |
|--------|------|--------|------|--------|------|-------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C.R.* |
| Male   | 196  | 2.4    | 258  | 3.1    | 337  | 4.0   |
| Female | 117  | 1.5    | 140  | 1.8    | 197  | 2.5   |

| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 - 4     | 28     | 2.6       | 13     | 1.3       |
| 5 - 9     | 26     | 2.7       | 15     | 1.6       |
| 10 - 14   | 32     | 3.2       | 21     | 2.2       |
| 15 - 19   | 28     | 3.0       | 13     | 1.4       |
| 20 - 24   | 21     | 2.4       | 7      | 0.8       |
| 25 - 29   | 11     | 1.5       | 16     | 2.2       |
| 30 - 34   | 16     | 2.5       | 9      | 1.4       |
| 35 - 39   | 19     | 3.9       | 19     | 4.0       |
| 40 - 44   | 21     | 5.1       | 14     | 3.6       |
| 45 - 49   | 24     | 6.8       | 16     | 4.6       |
| 50 - 54   | 22     | 6.8       | 15     | 5.1       |
| 55 - 59   | 18     | 7.1       | 15     | 6.5       |
| 60 - 64   | 18     | 8.5       | 23     | 12.7      |
| 65 - 69   | 17     | 11.1      | 21     | 15.1      |
| 70 - 74   | 17     | 15.2      | 10     | 10.5      |
| 75 <=     | 19     | 15.4      | 7      | 6.1       |
| Total     | 337    | 3.9       | 234    | 2.8       |

(Incidence: per 100,000 Population)

(\*C.R. : Crude incidence rate)

# HEMATOPOIETIC AND RETICULOENDOTHELIAL SYSTEM (Continued from page 17)

## ICD No. 169

Note: The cases refer to the above site have been separated to Leukaemia and other sites using ICD 9 convention

### Male

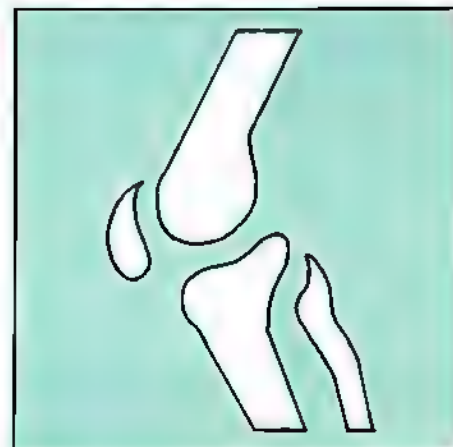
| Age      | Hodgkin's Disease | Lymphoma | Multiple Myeloma | Lymphoid | Leukaemia | Myeloid | Leukaemia | Other Leukaemia | Total (%)   |
|----------|-------------------|----------|------------------|----------|-----------|---------|-----------|-----------------|-------------|
|          |                   |          |                  | Acute    | Chronic   | Acute   | Chronic   |                 |             |
| ... < 5  |                   | 1        |                  | 25       |           | 1       |           | 1               | 28 (8.3)    |
| 5 - 9    | 1                 | 1        |                  | 20       |           | 3       |           | 1               | 26 (7.7)    |
| 10 - 14  |                   | 10       |                  | 17       | 1         | 2       | 1         | 1               | 32 (9.5)    |
| 15 - 19  | 3                 | 10       |                  | 11       |           | 2       |           | 2               | 28 (8.3)    |
| 20 - 24  |                   | 7        |                  | 6        |           | 3       | 1         | 4               | 21 (6.2)    |
| 25 - 29  | 2                 |          |                  | 5        |           | 1       | 1         | 2               | 11 (3.3)    |
| 30 - 34  |                   | 8        |                  | 2        |           | 4       | 2         |                 | 16 (4.7)    |
| 35 - 39  | 1                 | 12       | 1                |          |           |         | 3         | 2               | 19 (5.7)    |
| 40 - 44  | 1                 | 8        |                  | 2        |           | 3       | 3         | 4               | 21 (6.2)    |
| 45 - 49  | 4                 | 7        | 4                | 1        | 1         | 3       | 3         | 1               | 24 (7.1)    |
| 50 - 54  | 3                 | 8        | 3                | 1        |           | 2       | 2         | 3               | 22 (6.5)    |
| 55 - 59  | 1                 | 10       | 3                |          |           |         | 1         | 3               | 18 (5.3)    |
| 60 - 64  | 3                 | 6        | 3                | 2        | 1         | 1       |           | 2               | 18 (5.3)    |
| 65 - 69  | 1                 | 9        | 4                | 1        |           | 1       | 1         |                 | 17 (5.1)    |
| 70 - 74  | 3                 | 7        | 2                | 1        | 1         | 1       | 1         | 1               | 17 (5.1)    |
| 75 < ... | 1                 | 6        | 2                |          | 3         | 4       | 2         | 1               | 19 (5.7)    |
| Total    | 24                | 110      | 22               | 94       | 7         | 31      | 21        | 28              | 337 (100.0) |
| %        | (7.1)             | (32.6)   | (6.6)            | (27.9)   | (2.1)     | (9.2)   | (6.2)     | (8.3)           | (100.0)     |

### Female

| Age      | Hodgkin's Disease | Lymphoma | Multiple Myeloma | Lymphoid | Leukaemia | Myeloid | Leukaemia | Other Leukaemia | Total (%)   |
|----------|-------------------|----------|------------------|----------|-----------|---------|-----------|-----------------|-------------|
|          |                   |          |                  | Acute    | Chronic   | Acute   | Chronic   |                 |             |
| ... < 5  |                   |          |                  | 12       |           | 1       |           |                 | 13 (5.6)    |
| 5 - 9    | 1                 |          |                  | 11       |           | 3       |           |                 | 15 (6.4)    |
| 10 - 14  |                   | 2        |                  | 12       |           | 7       |           |                 | 21 (9.0)    |
| 15 - 19  | 1                 | 1        |                  | 7        |           | 3       |           | 1               | 13 (5.5)    |
| 20 - 24  | 1                 |          |                  | 2        |           | 2       | 2         |                 | 7 (3.0)     |
| 25 - 29  |                   | 8        |                  | 3        |           | 4       | 1         |                 | 16 (6.8)    |
| 30 - 34  | 1                 |          |                  | 1        |           | 4       | 2         | 1               | 9 (3.9)     |
| 35 - 39  | 2                 | 6        |                  | 2        |           | 4       | 3         | 2               | 19 (8.1)    |
| 40 - 44  | 2                 | 6        |                  |          |           | 1       | 4         | 1               | 14 (6.0)    |
| 45 - 49  |                   | 5        | 1                |          |           | 6       |           | 4               | 16 (6.8)    |
| 50 - 54  | 2                 | 7        | 1                | 1        |           | 1       | 2         | 1               | 15 (6.4)    |
| 55 - 59  |                   | 3        | 3                | 4        |           | 1       | 1         | 3               | 15 (6.4)    |
| 60 - 64  | 1                 | 8        | 6                | 1        |           | 3       | 2         | 2               | 23 (9.8)    |
| 65 - 69  | 4                 | 5        | 5                | 2        |           | 4       | 1         |                 | 21 (9.0)    |
| 70 - 74  |                   | 1        | 3                | 1        | 2         | 1       | 1         | 1               | 10 (4.3)    |
| 75 < ... |                   | 3        | 1                | 2        | 1         |         |           |                 | 7 (3.0)     |
| Total    | 15                | 55       | 20               | 61       | 3         | 45      | 19        | 16              | 234 (100.0) |
| %        | (6.4)             | (23.5)   | (8.6)            | (26.1)   | (1.3)     | (19.2)  | (8.1)     | (6.8)           | (100.0)     |

# BONES JOINTS AND ARTICULAR CARTILAGES

ICD No. 170



| Incidence                      |   | Male  | Female |
|--------------------------------|---|-------|--------|
| Crude Rate                     | : | 0.7   | 0.5    |
| Age Adjusted Rate (World)      | : | 0.7   | 0.5    |
| Age Adjusted Rate (Developing) | : | 0.7   | 0.5    |
| Lifetime Risk                  | : | 0.05% | 0.04%  |
| Median Age (Years)             | : | 33.0  | 20.0   |

## Statistics (1985 - 87)

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Male   | 48   | 0.6    | 61   | 0.7    | 57   | 0.7    |
| Female | 43   | 0.6    | 30   | 0.4    | 36   | 0.4    |

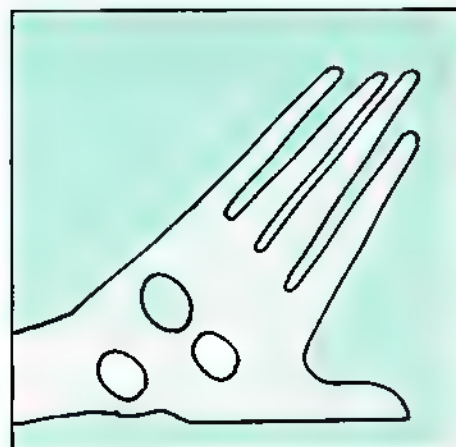
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 - 4     | 2      | 0.2       | 1      | 0.1       |
| 5 - 9     | 4      | 0.4       | 3      | 0.3       |
| 10 - 14   | 6      | 0.6       | 12     | 1.3       |
| 15 - 19   | 6      | 0.6       | 5      | 0.6       |
| 20 - 24   | 4      | 0.5       | 3      | 0.3       |
| 25 - 29   | 7      | 1.0       | 1      | 0.1       |
| 30 - 34   | 2      | 0.3       | 2      | 0.3       |
| 35 - 39   | —      | —         | 3      | 0.6       |
| 40 - 44   | 3      | 0.7       | 1      | 0.3       |
| 45 - 49   | 7      | 2.0       | —      | —         |
| 50 - 54   | 5      | 1.5       | 2      | 0.7       |
| 55 - 59   | 3      | 1.2       | 7      | 3.0       |
| 60 - 64   | 4      | 1.9       | —      | —         |
| 65 - 69   | —      | —         | 1      | 0.7       |
| 70 - 74   | 4      | 3.6       | 1      | 1.0       |
| 75 <=     | 4      | 3.3       | 1      | 0.9       |
| Total     | 61     | 0.7       | 43     | 0.5       |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# SKIN

ICD No. 173



| Incidence                      |   | Male  | Female |
|--------------------------------|---|-------|--------|
| Crude Rate                     | : | 0.8   | 0.3    |
| Age Adjusted Rate (World)      | : | 0.9   | 0.5    |
| Age Adjusted Rate (Developing) | : | 0.8   | 0.4    |
| Lifetime Risk                  | : | 0.08% | 0.03%  |
| Median Age (Years)             | : | 55.0  | 52.0   |

## Statistics (1985 - 87)

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Male   | 62   | 0.8    | 62   | 0.8    | 58   | 0.7    |
| Female | 32   | 0.4    | 27   | 0.3    | 24   | 0.3    |

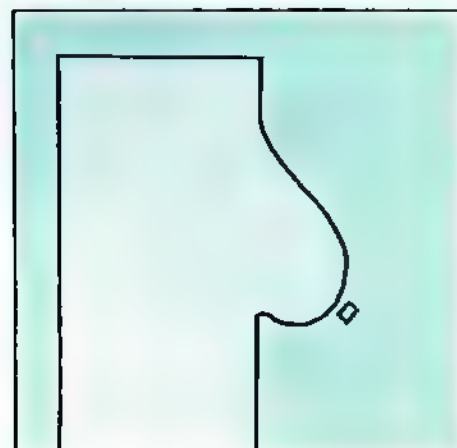
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 - 4     | -      | -         | -      | -         |
| 5 - 9     | -      | -         | -      | -         |
| 10 - 14   | 1      | 0.1       | -      | -         |
| 15 - 19   | 1      | 0.1       | -      | -         |
| 20 - 24   | -      | -         | -      | -         |
| 25 - 29   | 2      | 0.3       | 3      | 0.4       |
| 30 - 34   | 5      | 0.8       | -      | -         |
| 35 - 39   | 3      | 0.6       | 5      | 1.1       |
| 40 - 44   | 8      | 1.9       | 2      | 0.5       |
| 45 - 49   | 7      | 2.0       | 2      | 0.6       |
| 50 - 54   | 7      | 2.2       | 5      | 1.7       |
| 55 - 59   | 6      | 2.4       | 2      | 0.9       |
| 60 - 64   | 6      | 2.8       | 1      | 0.6       |
| 65 - 69   | 4      | 2.6       | 1      | 0.7       |
| 70 - 74   | 7      | 6.3       | 3      | 3.2       |
| 75 <=     | 12     | 9.8       | 5      | 4.3       |
| Total     | 69     | 0.8       | 29     | 0.3       |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# BREAST

ICD No. 174 : F, 175 : M



| Incidence                      |   | Male  | Female |
|--------------------------------|---|-------|--------|
| Crude Rate                     | : | 0.2   | 7.7    |
| Age Adjusted Rate (World)      | : | 0.2   | 9.3    |
| Age Adjusted Rate (Developing) | : | 0.2   | 8.1    |
| Lifetime Risk                  | : | 0.02% | 0.98%  |
| Median Age (Years)             | : | 61.0  | 47.5   |

## Statistics (1985 – 87)

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Male   | 8    | 0.1    | 9    | 0.1    | 4    | 0.0    |
| Female | 531  | 6.8    | 563  | 7.1    | 538  | 6.7    |

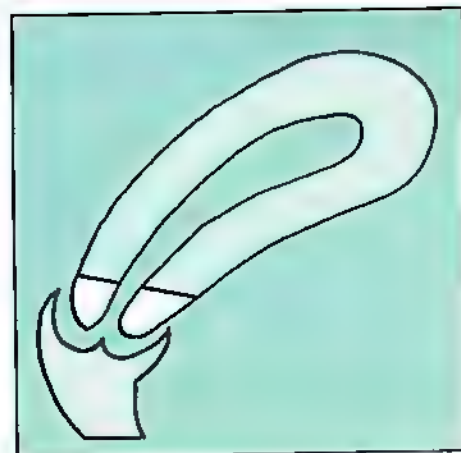
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 – 4     | –      | –         | –      | –         |
| 5 – 9     | –      | –         | 1      | 0.1       |
| 10 – 14   | –      | –         | –      | –         |
| 15 – 19   | –      | –         | –      | –         |
| 20 – 24   | –      | –         | 2      | 0.2       |
| 25 – 29   | –      | –         | 11     | 1.5       |
| 30 – 34   | –      | –         | 45     | 7.1       |
| 35 – 39   | –      | –         | 82     | 17.2      |
| 40 – 44   | 1      | 0.2       | 103    | 26.6      |
| 45 – 49   | –      | –         | 122    | 35.4      |
| 50 – 54   | 1      | 0.3       | 77     | 26.0      |
| 55 – 59   | 3      | 1.2       | 62     | 27.0      |
| 60 – 64   | 3      | 1.4       | 49     | 27.1      |
| 65 – 69   | 3      | 2.0       | 39     | 28.1      |
| 70 – 74   | 2      | 1.8       | 22     | 23.2      |
| 75 <=     | 1      | 0.8       | 25     | 21.9      |
| Total     | 14     | 0.2       | 640    | 7.7       |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# CERVIX UTERI

ICD No. 180



| Incidence                      |   | Female |
|--------------------------------|---|--------|
| Crude Rate                     | : | 6.6    |
| Age Adjusted Rate (World)      | : | 8.6    |
| Age Adjusted Rate (Developing) | : | 7.1    |
| Lifetime Risk                  | : | 0.96%  |
| Median Age (Years)             | : | 55.0   |

## Statistics (1985 - 87)

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Female | 474  | 6.1    | 495  | 6.3    | 510  | 6.4    |

| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 - 4     |        |           | 1      | 0.1       |
| 5 - 9     |        |           | -      | -         |
| 10 - 14   |        |           | -      | -         |
| 15 - 19   |        |           | -      | -         |
| 20 - 24   |        |           | 3      | 0.3       |
| 25 - 29   |        |           | 5      | 0.7       |
| 30 - 34   |        |           | 16     | 2.5       |
| 35 - 39   |        |           | 40     | 8.4       |
| 40 - 44   |        |           | 54     | 14.0      |
| 45 - 49   |        |           | 69     | 20.1      |
| 50 - 54   |        |           | 84     | 28.4      |
| 55 - 59   |        |           | 79     | 34.3      |
| 60 - 64   |        |           | 58     | 32.0      |
| 65 - 69   |        |           | 72     | 51.8      |
| 70 - 74   |        |           | 39     | 41.1      |
| 75 <=     |        |           | 27     | 23.5      |
| Total     |        |           | 547    | 6.6       |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

## UTERUS AND CORPUS UTERI

ICD No. 179, 182



| Incidence                      |   | Female |
|--------------------------------|---|--------|
| Crude Rate                     | : | 0.8    |
| Age Adjusted Rate (World)      | : | 1.0    |
| Age Adjusted Rate (Developing) | : | 0.9    |
| Lifetime Risk                  | : | 0.11%  |
| Median Age (Years)             | : | 51.0   |

### Statistics (1985 – 87)

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Female | 44   | 0.6    | 37   | 0.5    | 47   | 0.6    |

| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 – 4     |        |           | 1      | 0.1       |
| 5 – 9     |        |           | –      | –         |
| 10 – 14   |        |           | –      | –         |
| 15 – 19   |        |           | 2      | 0.2       |
| 20 – 24   |        |           | 3      | 0.3       |
| 25 – 29   |        |           | 5      | 0.7       |
| 30 – 34   |        |           | 1      | 0.2       |
| 35 – 39   |        |           | 6      | 1.3       |
| 40 – 44   |        |           | 6      | 1.6       |
| 45 – 49   |        |           | 8      | 2.3       |
| 50 – 54   |        |           | 11     | 3.7       |
| 55 – 59   |        |           | 11     | 4.8       |
| 60 – 64   |        |           | 7      | 3.9       |
| 65 – 69   |        |           | 5      | 3.6       |
| 70 – 74   |        |           | 2      | 2.1       |
| 75 <=     |        |           | –      | –         |
| Total     |        |           | 68     | 0.8       |

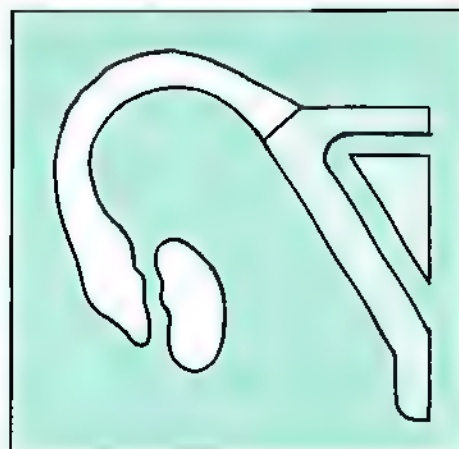
(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# **OVERY, FALLOPIAN TUBE AND BROAD LIGAMENT**

**ICD No. 183**

|                                |   |               |
|--------------------------------|---|---------------|
| <b>Incidence</b>               |   | <b>Female</b> |
| Crude Rate                     | : | 2.4           |
| Age Adjusted Rate (World)      | : | 2.9           |
| Age Adjusted Rate (Developing) | : | 2.5           |
| Lifetime Risk                  | : | 0.32%         |
| Median Age (Years)             | : | 50.0          |



## **Statistics (1985 - 87)**

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Female | 148  | 1.9    | 154  | 1.9    | 166  | 2.1    |

| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 - 4     |        |           | -      | -         |
| 5 - 9     |        |           | -      | -         |
| 10 - 14   |        |           | 6      | 0.6       |
| 15 - 19   |        |           | 2      | 0.2       |
| 20 - 24   |        |           | 6      | 0.7       |
| 25 - 29   |        |           | 9      | 1.2       |
| 30 - 34   |        |           | 17     | 2.7       |
| 35 - 39   |        |           | 19     | 4.0       |
| 40 - 44   |        |           | 14     | 3.6       |
| 45 - 49   |        |           | 27     | 7.8       |
| 50 - 54   |        |           | 31     | 10.5      |
| 55 - 59   |        |           | 31     | 13.5      |
| 60 - 64   |        |           | 19     | 10.5      |
| 65 - 69   |        |           | 12     | 8.6       |
| 70 - 74   |        |           | 3      | 3.2       |
| 75 <=     |        |           | 5      | 4.3       |
| Total     |        |           | 201    | 2.4       |

(Incidence: per 100,000 Population)

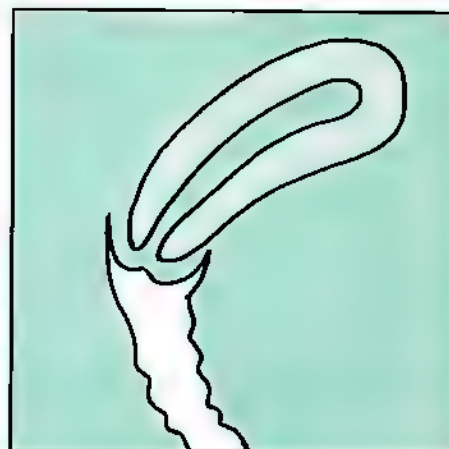
(\*C. R. : Crude incidence rate)



## OTHER FEMALE GENITAL ORGANS

ICD No. 184

| Incidence                      |   | Female |
|--------------------------------|---|--------|
| Crude Rate                     | : | 0.4    |
| Age Adjusted Rate (World)      | : | 0.6    |
| Age Adjusted Rate (Developing) | : | 0.4    |
| Lifetime Risk                  | : | 0.05%  |
| Median Age (Years)             | : | 60.0   |



### Statistics (1985 – 87)

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Female | 33   | 0.4    | 26   | 0.3    | 32   | 0.4    |

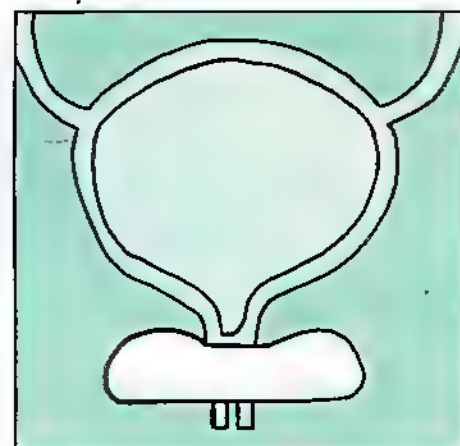
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 – 4     |        |           | –      | –         |
| 5 – 9     |        |           | –      | –         |
| 10 – 14   |        |           | –      | –         |
| 15 – 19   |        |           | 1      | 0.1       |
| 20 – 24   |        |           | –      | –         |
| 25 – 29   |        |           | –      | –         |
| 30 – 34   |        |           | 1      | 0.2       |
| 35 – 39   |        |           | 3      | 0.6       |
| 40 – 44   |        |           | 3      | 0.8       |
| 45 – 49   |        |           | 2      | 0.6       |
| 50 – 54   |        |           | 2      | 0.7       |
| 55 – 59   |        |           | 2      | 0.9       |
| 60 – 64   |        |           | 6      | 3.3       |
| 65 – 69   |        |           | 3      | 2.2       |
| 70 – 74   |        |           | 4      | 4.2       |
| 75 <=     |        |           | 6      | 5.2       |
| Total     |        |           | 33     | 0.4       |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# PROSTATE GLAND

ICD No. 185



| Incidence                      |   | Male  |
|--------------------------------|---|-------|
| Crude Rate                     | : | 0.6   |
| Age Adjusted Rate (World)      | : | 0.7   |
| Age Adjusted Rate (Developing) | : | 0.6   |
| Lifetime Risk                  | : | 0.08% |
| Median Age (Years)             | : | 67.0  |

## Statistics (1985 – 87)

| Year | 1985 |        | 1986 |        | 1987 |        |
|------|------|--------|------|--------|------|--------|
|      | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Male | 44   | 0.5    | 36   | 0.4    | 45   | 0.5    |

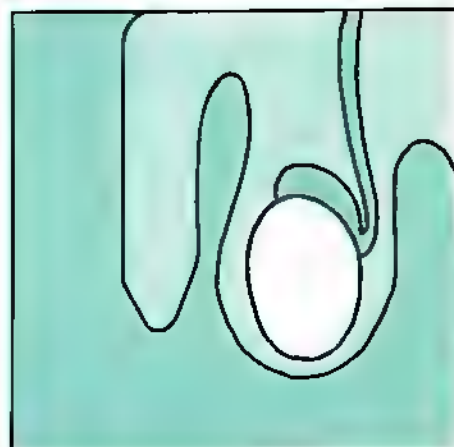
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 – 4     | —      | —         |        |           |
| 5 – 9     | —      | —         |        |           |
| 10 – 14   | —      | —         |        |           |
| 15 – 19   | 1      | 0.1       |        |           |
| 20 – 24   | —      | —         |        |           |
| 25 – 29   | —      | —         |        |           |
| 30 – 34   | —      | —         |        |           |
| 35 – 39   | —      | —         |        |           |
| 40 – 44   | 1      | 0.2       |        |           |
| 45 – 49   | —      | —         |        |           |
| 50 – 54   | —      | —         |        |           |
| 55 – 59   | 9      | 3.5       |        |           |
| 60 – 64   | 5      | 2.4       |        |           |
| 65 – 69   | 16     | 10.5      |        |           |
| 70 – 74   | 11     | 9.8       |        |           |
| 75 <=     | 8      | 6.5       |        |           |
| Total     | 51     | 0.6       |        |           |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# TESTIS

ICD No. 186



|                                |   |       |
|--------------------------------|---|-------|
| Incidence                      |   | Male  |
| Crude Rate                     | : | 0.2   |
| Age Adjusted Rate (World)      | : | 0.3   |
| Age Adjusted Rate (Developing) | : | 0.2   |
| Lifetime Risk                  | : | 0.02% |
| Median Age (Years)             | : | 38.0  |

## Statistics (1985 – 87)

| Year | 1985 |        | 1986 |        | 1987 |        |
|------|------|--------|------|--------|------|--------|
|      | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Male | 21   | 0.3    | 18   | 0.2    | 28   | 0.3    |

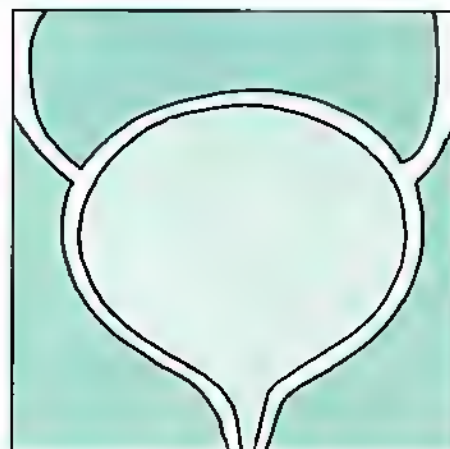
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 – 4     | –      | –         |        |           |
| 5 – 9     | –      | –         |        |           |
| 10 – 14   | –      | –         |        |           |
| 15 – 19   | –      | –         |        |           |
| 20 – 24   | 2      | 0.2       |        |           |
| 25 – 29   | 4      | 0.5       |        |           |
| 30 – 34   | –      | –         |        |           |
| 35 – 39   | 8      | 1.7       |        |           |
| 40 – 44   | 2      | 0.5       |        |           |
| 45 – 49   | 2      | 0.6       |        |           |
| 50 – 54   | 1      | 0.3       |        |           |
| 55 – 59   | –      | –         |        |           |
| 60 – 64   | 1      | 0.5       |        |           |
| 65 – 69   | 1      | 0.7       |        |           |
| 70 – 74   | –      | –         |        |           |
| 75 <=     | –      | –         |        |           |
| Total     | 21     | 0.2       |        |           |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# URINARY BLADDER

ICD No. 188



| Incidence                      |   | Male  | Female |
|--------------------------------|---|-------|--------|
| Crude Rate                     | : | 0.6   | 0.2    |
| Age Adjusted Rate (World)      | : | 0.7   | 0.3    |
| Age Adjusted Rate (Developing) | : | 0.6   | 0.2    |
| Lifetime Risk                  | : | 0.07% | 0.03%  |
| Median Age (Years)             | : | 62.0  | 65.0   |

## Statistics (1985 – 87)

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Male   | 50   | 0.6    | 38   | 0.5    | 51   | 0.6    |
| Female | 3    | 0.0    | 13   | 0.2    | 13   | 0.2    |

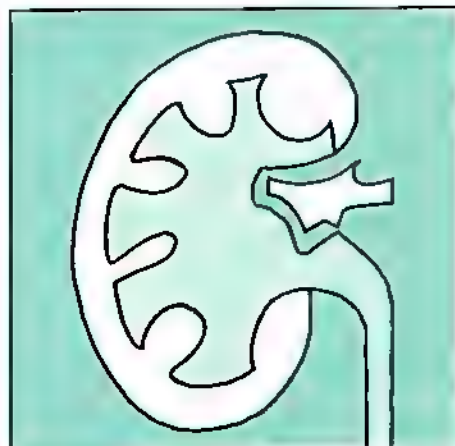
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 – 4     | 1      | 0.1       | –      | –         |
| 5 – 9     | –      | –         | –      | –         |
| 10 – 14   | –      | –         | –      | –         |
| 15 – 19   | –      | –         | –      | –         |
| 20 – 24   | –      | –         | –      | –         |
| 25 – 29   | –      | –         | –      | –         |
| 30 – 34   | 1      | 0.2       | –      | –         |
| 35 – 39   | 1      | 0.2       | –      | –         |
| 40 – 44   | 1      | 0.2       | –      | –         |
| 45 – 49   | 6      | 1.7       | 4      | 1.2       |
| 50 – 54   | 7      | 2.2       | 1      | 0.3       |
| 55 – 59   | 4      | 1.6       | 3      | 1.3       |
| 60 – 64   | 8      | 3.8       | 1      | 0.6       |
| 65 – 69   | 8      | 5.2       | 4      | 2.9       |
| 70 – 74   | 7      | 6.3       | 2      | 2.1       |
| 75 <=     | 7      | 5.7       | 4      | 3.5       |
| Total     | 51     | 0.6       | 19     | 0.2       |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# KIDNEY AND OTHER URINARY ORGANS

ICD No. 189



| Incidence                      |   | Male  | Female |
|--------------------------------|---|-------|--------|
| Crude Rate                     | : | 0.3   | 0.2    |
| Age Adjusted Rate (World)      | : | 0.3   | 0.3    |
| Age Adjusted Rate (Developing) | : | 0.3   | 0.2    |
| Lifetime Risk                  | : | 0.04% | 0.03%  |
| Median Age (Years)             | : | 50.0  | 57.0   |

## Statistics (1985 – 87)

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Male   | 17   | 0.2    | 31   | 0.4    | 25   | 0.3    |
| Female | 13   | 0.2    | 15   | 0.2    | 21   | 0.3    |

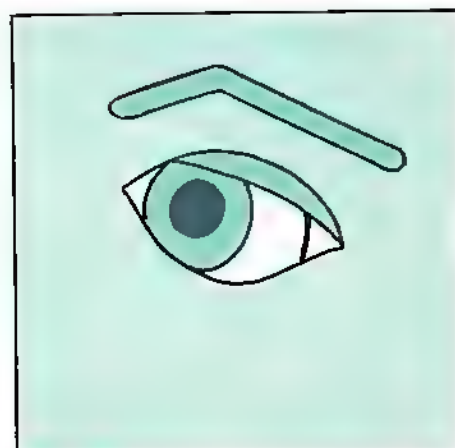
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 – 4     | 2      | 0.2       | 3      | 0.3       |
| 5 – 9     | 1      | 0.1       | –      | –         |
| 10 – 14   | –      | –         | –      | –         |
| 15 – 19   | –      | –         | –      | –         |
| 20 – 24   | –      | –         | –      | –         |
| 25 – 29   | 1      | 0.1       | –      | –         |
| 30 – 34   | 2      | 0.3       | –      | –         |
| 35 – 39   | 1      | 0.2       | –      | –         |
| 40 – 44   | 2      | 0.5       | 1      | 0.3       |
| 45 – 49   | 4      | 1.1       | 2      | 0.6       |
| 50 – 54   | 4      | 1.2       | 2      | 0.7       |
| 55 – 59   | 6      | 2.4       | 2      | 0.9       |
| 60 – 64   | 3      | 1.4       | 4      | 2.2       |
| 65 – 69   | –      | –         | 2      | 1.4       |
| 70 – 74   | 1      | 0.9       | 1      | 1.1       |
| 75 <=     | –      | –         | 1      | 0.9       |
| Total     | 27     | 0.3       | 18     | 0.2       |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# EYE AND LACRIMAL GLAND

ICD No. 190



| Incidence                      | Male  | Female |
|--------------------------------|-------|--------|
| Crude Rate                     | 0.1   | 0.1    |
| Age Adjusted Rate (World)      | 0.1   | 0.1    |
| Age Adjusted Rate (Developing) | 0.1   | 0.1    |
| Lifetime Risk                  | 0.01% | 0.01%  |
| Median Age (Years)             | 4.0   | 3.0    |

## Statistics (1985 – 87)

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Male   | 12   | 0.1    | 14   | 0.2    | 9    | 0.1    |
| Female | 9    | 0.1    | 9    | 0.1    | 9    | 0.1    |

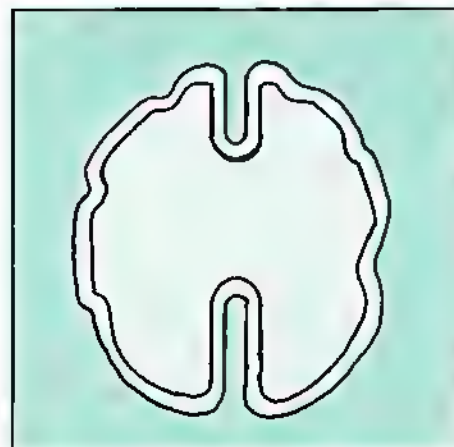
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 – 4     | 6      | 0.6       | 6      | 0.6       |
| 5 – 9     | 1      | 0.1       | 1      | 0.1       |
| 10 – 14   | –      | –         | –      | –         |
| 15 – 19   | –      | –         | –      | –         |
| 20 – 24   | 1      | 0.1       | 1      | 0.1       |
| 25 – 29   | –      | –         | –      | –         |
| 30 – 34   | 1      | 0.2       | –      | –         |
| 35 – 39   | 1      | 0.2       | –      | –         |
| 40 – 44   | –      | –         | –      | –         |
| 45 – 49   | –      | –         | 1      | 0.3       |
| 50 – 54   | 1      | 0.3       | –      | –         |
| 55 – 59   | 1      | 0.4       | –      | –         |
| 60 – 64   | –      | –         | –      | –         |
| 65 – 69   | –      | –         | –      | –         |
| 70 – 74   | –      | –         | –      | –         |
| 75 <=     | –      | –         | –      | –         |
| Total     | 12     | 0.1       | 9      | 0.1       |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# BRAIN

ICD No. 191



| Incidence                      | Male  | Female |
|--------------------------------|-------|--------|
| Crude Rate                     | 0.7   | 0.3    |
| Age Adjusted Rate (World)      | 0.7   | 0.3    |
| Age Adjusted Rate (Developing) | 0.7   | 0.3    |
| Lifetime Risk                  | 0.05% | 0.03%  |
| Median Age (Years)             | 32.0  | 26.5   |

## Statistics (1985 - 87)

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Male   | 29   | 0.4    | 88   | 0.3    | 31   | 0.4    |
| Female | 22   | 0.3    | 18   | 0.2    | 36   | 0.4    |

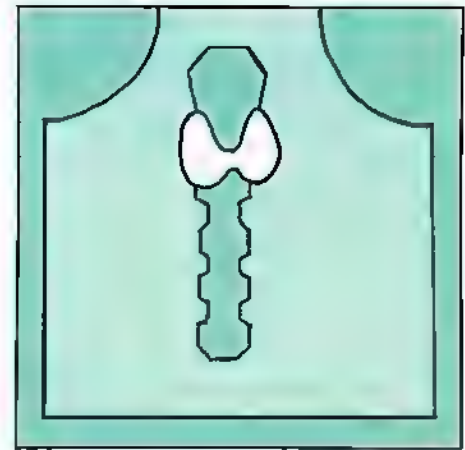
| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 - 4     | 4      | 0.4       | 2      | 0.2       |
| 5 - 9     | 5      | 0.5       | 4      | 0.4       |
| 10 - 14   | 7      | 0.7       | 3      | 0.3       |
| 15 - 19   | 2      | 0.2       | —      | —         |
| 20 - 24   | 1      | 0.1       | 3      | 0.3       |
| 25 - 29   | 6      | 0.8       | 2      | 0.3       |
| 30 - 34   | 9      | 1.4       | —      | —         |
| 35 - 39   | 7      | 1.5       | 2      | 0.4       |
| 40 - 44   | 6      | 1.4       | 2      | 0.5       |
| 45 - 49   | 2      | 0.6       | 4      | 1.2       |
| 50 - 54   | 5      | 1.5       | 3      | 1.0       |
| 55 - 59   | 2      | 0.8       | —      | —         |
| 60 - 64   | 2      | 0.9       | 1      | 0.6       |
| 65 - 69   | —      | —         | —      | —         |
| 70 - 74   | —      | —         | —      | —         |
| 75 <=     | —      | —         | —      | —         |
| Total     | 58     | 0.7       | 26     | 0.3       |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)

# **THYROID GLAND**

**ICD No. 193**



|                                |   |       |        |
|--------------------------------|---|-------|--------|
| Incidence                      |   | Male  | Female |
| Crude Rate                     | : | 0.7   | 0.2    |
| Age Adjusted Rate (World)      | : | 0.8   | 2.3    |
| Age Adjusted Rate (Developing) | : | 0.7   | 2.0    |
| Lifetime Risk                  | : | 0.08% | 0.24%  |
| Median Age (Years)             | : | 51.0  | 45.0   |

## **Statistics (1985 – 87)**

| Year   | 1985 |        | 1986 |        | 1987 |        |
|--------|------|--------|------|--------|------|--------|
|        | No.  | C. R.* | No.  | C. R.* | No.  | C. R.* |
| Male   | 40   | 0.5    | 33   | 0.4    | 47   | 0.6    |
| Female | 103  | 1.3    | 108  | 1.4    | 112  | 1.4    |

| Age Group | Male   |           | Female |           |
|-----------|--------|-----------|--------|-----------|
|           | Number | Incidence | Number | Incidence |
| 0 – 4     | -      | -         | -      | -         |
| 5 – 9     | -      | -         | 1      | 0.1       |
| 10 – 14   | -      | -         | 1      | 0.1       |
| 15 – 19   | -      | -         | 6      | 0.7       |
| 20 – 24   | -      | -         | 9      | 1.0       |
| 25 – 29   | 10     | 1.4       | 13     | 1.8       |
| 30 – 34   | 5      | 0.8       | 17     | 2.7       |
| 35 – 39   | 2      | 0.4       | 19     | 4.0       |
| 40 – 44   | 7      | 1.7       | 15     | 3.9       |
| 45 – 49   | 4      | 1.1       | 17     | 4.9       |
| 50 – 54   | 8      | 2.5       | 9      | 3.0       |
| 55 – 59   | 4      | 1.6       | 17     | 7.4       |
| 60 – 64   | 4      | 1.9       | 11     | 6.1       |
| 65 – 69   | 9      | 5.9       | 16     | 11.5      |
| 70 – 74   | 2      | 1.8       | 8      | 8.4       |
| 75 <=     | 7      | 5.7       | 4      | 3.5       |
| Total     | 62     | 0.7       | 163    | 2.0       |

(Incidence: per 100,000 Population)

(\*C. R. : Crude incidence rate)



## APPENDIX I

### GEOGRAPHY & DEMOGRAPHY OF SRI LANKA

Sri Lanka or Ceylon as it was known for many centuries is an island located in the centre of the Indian Ocean and in the vicinity of southern tip of the Indian sub continent approximately on Northern latitudes 5° to 9° and Eastern longitudes 79° to 80°.

#### Area

The island extends in the N-S direction to 445 kms and maximum breadth is 225.3 km. The total land area is 65,610 km<sup>2</sup> which includes about 982 km<sup>2</sup> of inland waters. One fifth of the total land area of 6.56 million hectares is forest and forest reserves and about quarter of the land has already been used for agriculture purposes.



#### Climate

The climatic conditions of Sri Lanka is effected by its proximity to the equator and the monsoons. These conditions slightly differ from hill country to low country. The mean temperature ranges from 14°C to 24°C in hill country and from 26°C to 28°C in other parts. The hill country receives sufficient rain and rest of the island maintains tropical climate with less than 200cm of annual rainfall.

#### Population

According to the last census held in 1981, the reported population was 14.85 million and this comprise four major ethnic groups namely Sinhala, Tamil, Moor and Burgher by 74.5%, 18.1%, 7.1% and 0.3% respectively. The reported sex percentage in relation to female was 48.5% and the distribution of population among urban, rural and estate areas were 21.5%, 72.2% and 6.3% respectively. The estimated population for 1990 was approximately 16.99 million.

#### Economy

The country's economy has been liberalized since 1977 which resulted to expand the economic activities. Per capita income of Sri Lanka was for 1990 about 467 US \$. In formation of the GDP in 1990 Agriculture and Manufacturing sectors contributed 23.22% and 17.35% respectively while the economic growth rate was at 6.2%.

#### Vital Statistics

The Literacy Rate of Sri Lanka exceeds 88% and is an one of the best in the South Asia region. The last census in 1981 reported that life expectation at birth for males and females are 67.8 and 71.7 years respectively. The vital statistics in 1990 indicates that the Crude Birth and Death Rates are 20.0 and 5.8 per every 1,000 persons respectively. The Fertility Rate is about 85 per 1,000 females aged 15 – 49 years while the Population Growth Rate at 1.5% . The Infant Mortality Rate for the year was about 19.3 per 1,000 population.

## APPENDIX II

### STATISTICAL TERMINOLOGY

#### Incidence

The term incidence is defined by the ratio of number of patients developing a particular disease and the average population at risk for a specific time period in a given geographical area.

#### Mortality

The term mortality is defined by the ratio of number of deaths due to a particular disease and the average population for a specific time period in a given geographical region.

#### Standardization

The basic idea in use of standardization is that allowing the adjustment for discrepancies in age structures between the standard population and a special population.

#### Lifetime Risk

The lifetime risk is defined by the probability of developing a disease during the lifetime of a person living in a specific community.

The measure of lifetime risk included in this volume are subject to the assumption of life expectation at birth of Sri Lanka population is 70 years.

#### Calculations

The methods of some important calculations included in this volume are as follows.

##### 1. Crude Rate

is calculated by dividing the total number of cases encountered in the year by the estimated mid year population at risk.

##### 2. Age-Specific Incidence Rate

is calculated by dividing the number of cases in each five year age-group by estimated mid year population at risk in the corresponding age group.

##### 3. Standard Incidence Rate

The standardized incidence rate can be regarded as a weighted mean of age specific incidence of Sri Lanka population, using the percentage of each age intervals of the age structure of the standard population.

This report considered two standard populations namely World Standard Population and Population in Developing Countries in order to compare the cancer incidences of Sri Lanka with same in other parts of the world.

##### 4. Estimate of Lifetime Risk (Cumulative Incidence Rate%)

The cumulative incidence rate is obtained by summing up the age-specific incidences in each five year age intervals ranged from 0 to 70 years. The cumulative rates % over the above range can be used as a good estimate for the lifetime risk of cancers.

Selection of the above age interval is due to the Sri Lanka's actuarial life expectancy which is close to 70 years in both males and females and beyond this interval detection of cancers in the extremely elder cases which are often found incidentally or after death and which are little relevance to the health of the people.

**APPENDIX III**  
**DISTRIBUTION OF CANCER BY AGE AND SEX**  
**IN SRI LANKA POPULATION 1990**

**Males**

| Age Group | Population |       | New Cancer Cases |       |
|-----------|------------|-------|------------------|-------|
|           | No. ('000) | %     | No.              | %     |
| 0 - 4     | 1,086      | 12.5  | 53               | 1.8   |
| 5 - 9     | 982        | 11.3  | 40               | 1.3   |
| 10 - 14   | 988        | 11.4  | 60               | 2.0   |
| 15 - 19   | 933        | 10.7  | 50               | 1.7   |
| 20 - 24   | 862        | 10.1  | 41               | 1.4   |
| 25 - 29   | 729        | 8.4   | 64               | 2.1   |
| 30 - 34   | 652        | 7.5   | 81               | 2.7   |
| 35 - 39   | 484        | 5.6   | 105              | 3.5   |
| 40 - 44   | 413        | 4.7   | 177              | 5.9   |
| 45 - 49   | 354        | 4.1   | 219              | 7.4   |
| 50 - 54   | 325        | 3.8   | 348              | 11.7  |
| 55 - 59   | 254        | 3.0   | 384              | 12.9  |
| 60 - 64   | 211        | 2.4   | 440              | 14.8  |
| 65 - 69   | 153        | 1.8   | 368              | 12.4  |
| 70 - 74   | 112        | 1.3   | 282              | 9.5   |
| 75 <=     | 123        | 1.4   | 267              | 8.9   |
| Total     | 8,661      | 100.0 | 2,979            | 100.0 |

**Females**

| Age Group | Population |       | New Cancer Cases |       |
|-----------|------------|-------|------------------|-------|
|           | No. ('000) | %     | No.              | %     |
| 0 - 4     | 1,039      | 12.5  | 33               | 1.1   |
| 5 - 9     | 951        | 11.4  | 30               | 1.0   |
| 10 - 14   | 946        | 11.4  | 48               | 1.6   |
| 15 - 19   | 906        | 10.9  | 37               | 1.2   |
| 20 - 24   | 866        | 10.5  | 52               | 1.7   |
| 25 - 29   | 727        | 8.8   | 76               | 2.5   |
| 30 - 34   | 633        | 7.6   | 139              | 4.5   |
| 35 - 39   | 476        | 5.7   | 240              | 7.8   |
| 40 - 44   | 387        | 4.6   | 280              | 9.1   |
| 45 - 49   | 345        | 4.1   | 377              | 12.2  |
| 50 - 54   | 296        | 3.5   | 379              | 12.3  |
| 55 - 59   | 230        | 2.7   | 402              | 13.0  |
| 60 - 64   | 181        | 2.2   | 335              | 10.8  |
| 65 - 69   | 139        | 1.6   | 325              | 10.5  |
| 70 - 74   | 95         | 1.1   | 176              | 5.7   |
| 75 <=     | 115        | 1.4   | 155              | 5.0   |
| Total     | 8,332      | 100.0 | 3,084            | 100.0 |

## APPENDIX IV

### GEOGRAPHICAL DISTRIBUTION OF CANCER INCIDENCE 1990

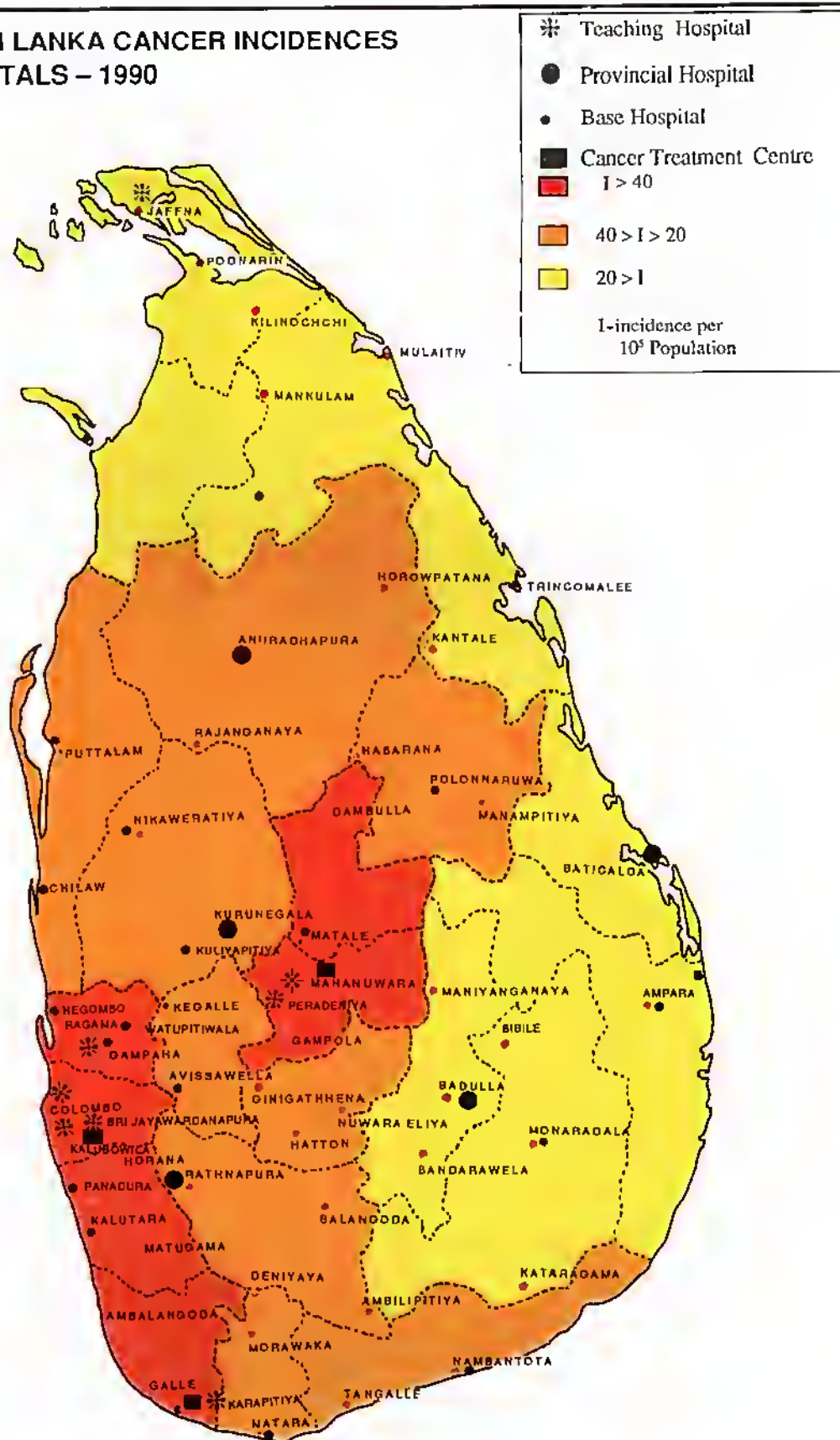
#### Geography by District

| District     | Mid Year<br>Population ('000) | No. of Cases | Incidence Rate<br>(10 <sup>-5</sup> population) |
|--------------|-------------------------------|--------------|---|
| Colombo      | 1,935                         | 1,393        | 72.0  |
| Kandy        | 1,236                         | 714          | 57.8  |
| Galle        | 932                           | 433          | 46.5  |
| Gampaha      | 1,518                         | 688          | 45.3  |
| Kalutara     | 934                           | 390          | 41.8  |
| Matale       | 414                           | 167          | 40.3  |
| Matara       | 765                           | 289          | 37.8  |
| Polonnaruwa  | 314                           | 115          | 36.6  |
| Kegalle      | 743                           | 241          | 32.4  |
| Ratnapura    | 923                           | 259          | 28.1  |
| Puttalam     | 589                           | 157          | 26.7  |
| Hambantota   | 510                           | 131          | 25.7  |
| Anuradhapura | 705                           | 160          | 22.7  |
| Kurunegala   | 1,410                         | 317          | 22.5  |
| Nuwara Eliya | 530                           | 113          | 21.3  |
| Badulla      | 701                           | 137          | 19.5  |
| Batticaloa   | 409                           | 69           | 16.9  |
| Moneragala   | 344                           | 51           | 14.8  |
| Ampara       | 474                           | 65           | 13.7  |
| Jaffna       | 863                           | 104          | 12.1  |
| Kilinochchi  | 99                            | 11           | 11.1  |
| Vavuniya     | 114                           | 12           | 10.5  |
| Mullaitivu   | 91                            | 9            | 9.9   |
| Trincomalee  | 311                           | 28           | 9.0   |
| Mannar       | 129                           | 10           | 7.8   |
| Total        | 16,993                        | 6,063        | 35.7  |

#### Geography by Province

| Province      | Mid Year<br>Population ('000) | No. of Cases | Incidence Rate<br>(10 <sup>-5</sup> population) |
|---------------|-------------------------------|--------------|---|
| Western       | 4,387                         | 2,471        | 56.3  |
| Central       | 2,180                         | 994          | 45.6  |
| Southern      | 2,207                         | 853          | 38.6  |
| Sabaragamuwa  | 1,666                         | 500          | 30.0  |
| North Western | 1,999                         | 474          | 23.7  |
| North Central | 1,019                         | 275          | 27.0  |
| Uva           | 1,045                         | 188          | 18.0  |
| Eastern       | 1,194                         | 162          | 13.6  |
| Northern      | 1,296                         | 146          | 11.6  |
| Total         | 16,993                        | 6,063        | 35.7  |

# MAP OF SRI LANKA CANCER INCIDENCES AND HOSPITALS – 1990



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**APPENDIX V**  
**LEADING CANCER SITES (1990)**

**Male**

| Site                         | Number (%)   | Incidence Rate | Median Age | Lifetime Risk |
|------------------------------|--------------|----------------|------------|---------------|
| Lip, Oral Cavity and Pharynx | 1,028 (34.5) | 11.9           | 60.0       | 1.63%         |
| Oesophagus                   | 254 (8.5)    | 2.9            | 60.0       | 0.40%         |
| Lung, Bronchus and Pleura    | 253 (8.5)    | 2.9            | 60.0       | 0.45%         |
| Larynx                       | 162 (5.4)    | 1.9            | 60.0       | 0.28%         |
| Stomach                      | 66 (2.2)     | 0.8            | 52.0       | 0.10%         |

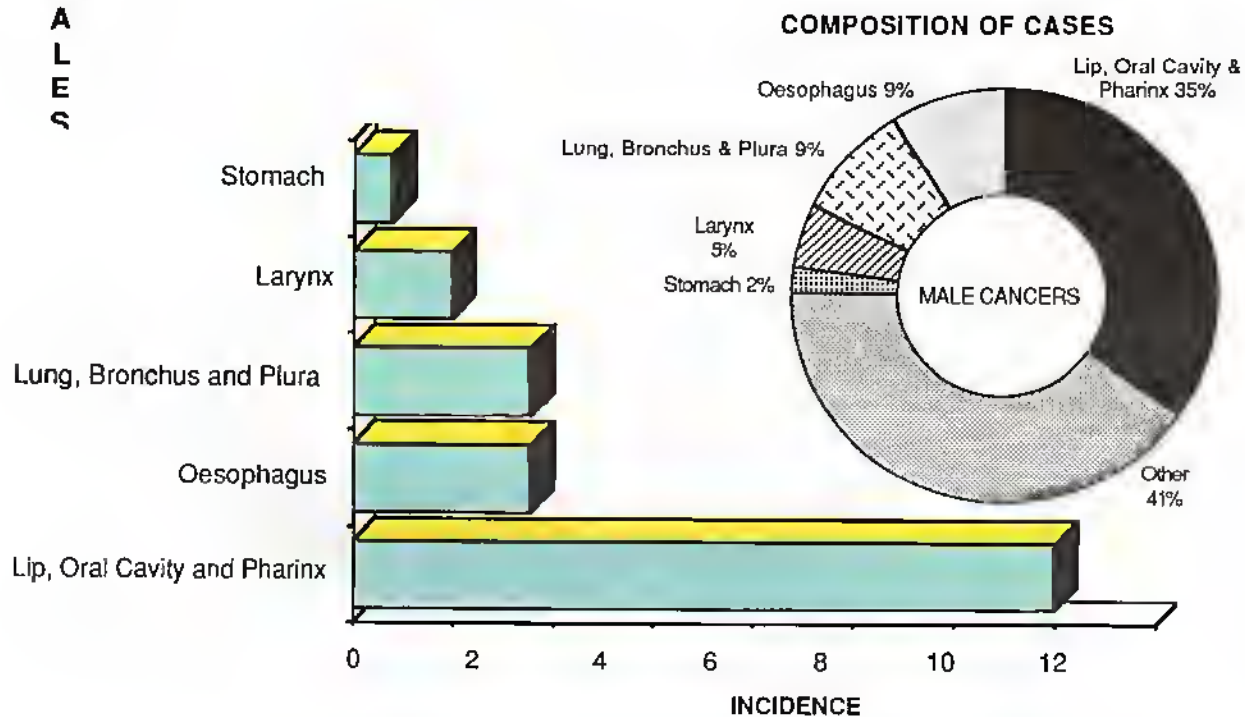
**Female**

| Site                                      | Number (%) | Incidence Rate | Median Age | Lifetime Risk |
|---|------------|----------------|------------|---------------|
| Breast                                    | 640 (20.7) | 7.7            | 47.5       | 0.98%         |
| Cervix Uteri                              | 547 (17.7) | 6.6            | 55.0       | 0.96%         |
| Lip, Oral Cavity and Pharynx              | 375 (12.1) | 4.5            | 60.0       | 0.67%         |
| Oesophagus                                | 290 (9.4)  | 3.5            | 58.0       | 0.56%         |
| Ovary, Fallopian Tube and Broad ligaments | 201 (6.5)  | 2.4            | 50.0       | 0.32%         |
| Thyroid Gland                             | 163 (5.3)  | 2.0            | 45.0       | 0.24%         |

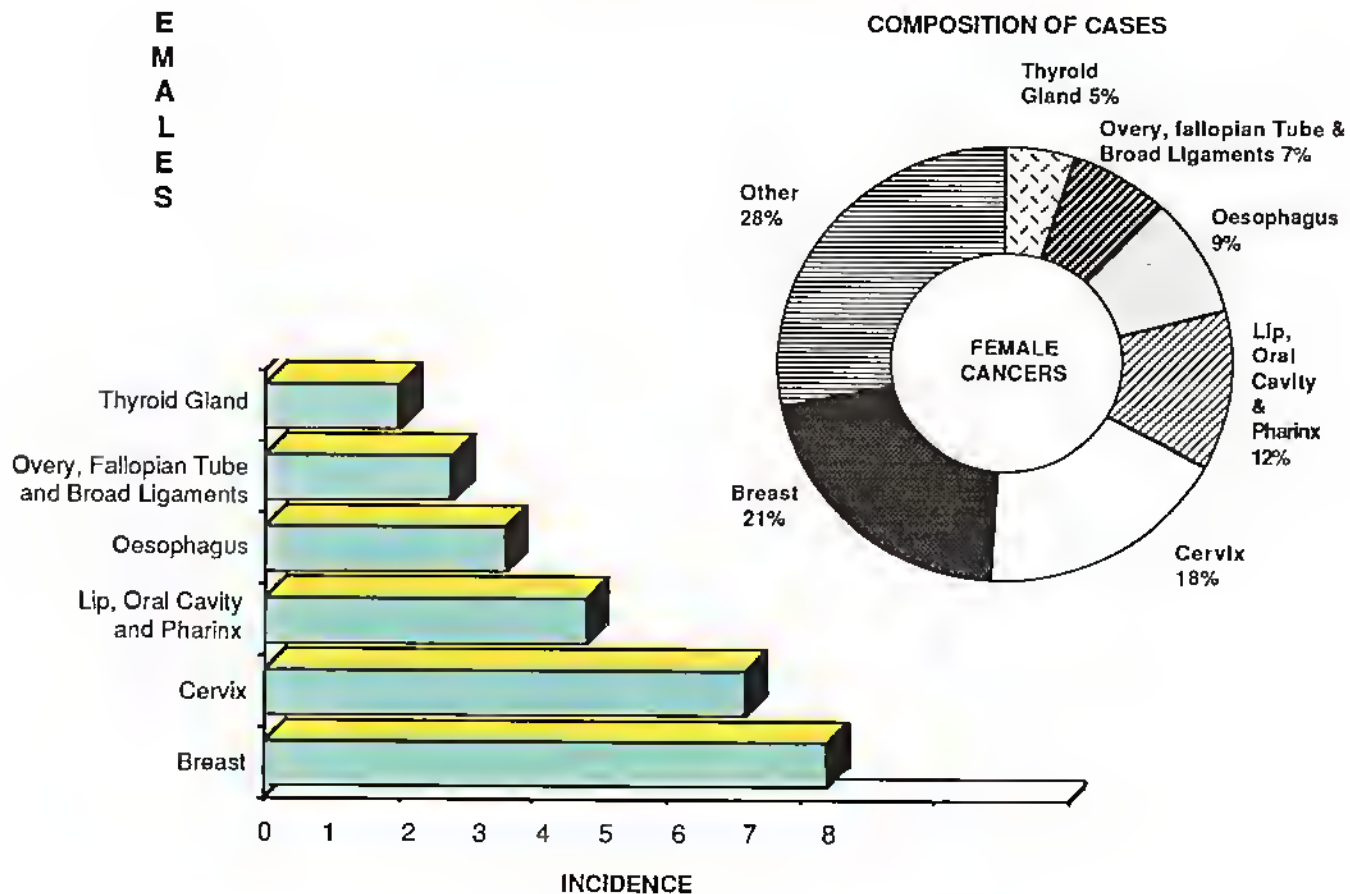


## LEADING CANCER SITES (1990)

**M  
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S**



**F  
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M  
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L  
E  
S**

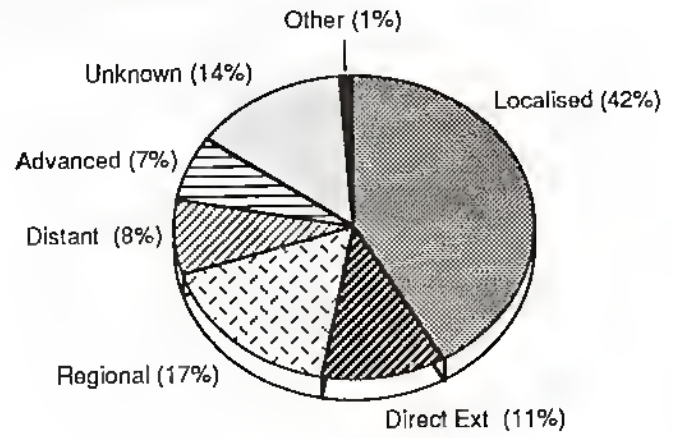


## APPENDIX VI

### CLINICAL STAGE AND TREATMENT

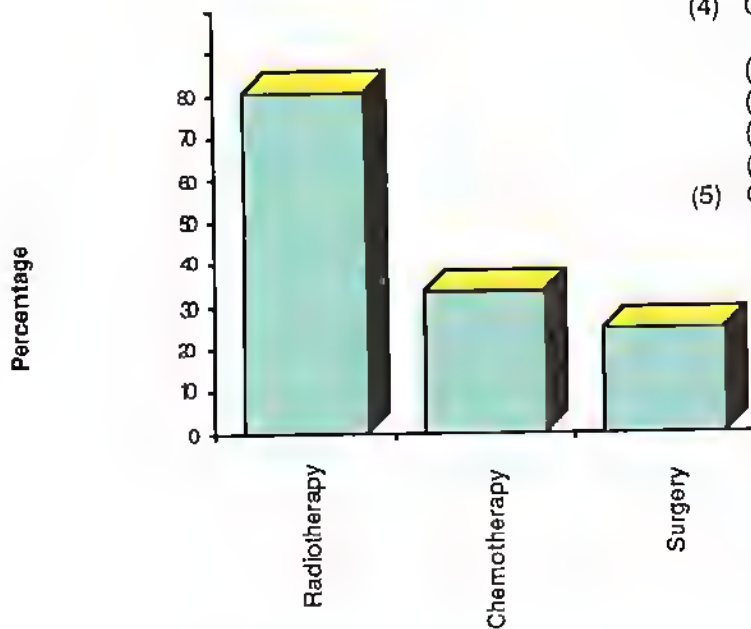
#### Clinical Stages

|                                   |   |        |
|-----------------------------------|---|--------|
| In situ                           | — | 0.5%   |
| Localised                         | — | 42.7%  |
| Direct Extensions                 | — | 10.7%  |
| Regional Lymph Nodes Involvements | — | 17.4%  |
| Distant Metastatics               | — | 7.9%   |
| Advanced stages                   | — | 6.9%   |
| Unknown                           | — | 13.9%  |
| Total                             | — | 100.0% |



#### Treatment

|                         |   |       |
|-------------------------|---|-------|
| (1) Surgery             | — | 24.5% |
| (2) Radiotherapy        | — | 80.5% |
| (3) Chemotherapy        | — | 33.3% |
| (4) Combined Treatments | — | 37.0% |
| (1) + (2)               | — | 15.9% |
| (1) + (3)               | — | 3.0%  |
| (2) + (3)               | — | 15.8% |
| (1) + (2) + (3)         | — | 2.3%  |
| (5) Other               | — | 1.0%  |





## APPENDIX VII

**CANCER TOPOGRAPHY CODES ICD – O (1976)**

|     |   |
|-----|---|
| 140 | LIP   |
| 141 | Tongue  |
| 142 | Salivary Gland                                    |
| 143 | Gum   |
| 144 | Floor of Mouth                                    |
| 145 | Other & Unspecified Parts of Mouth                |
| 146 | Oropharynx  |
| 147 | Nasopharynx                                       |
| 148 | Hypopharynx                                       |
| 149 | Pharynx & III Defined Sites                       |
| 150 | Oesophagus  |
| 151 | Stomach   |
| 152 | Small Intestine                                   |
| 153 | Colon   |
| 154 | Rectum, Rectosigmoid Junction, Anal Canal & Anus  |
| 155 | Liver & Intrahepatic Bile Ducts                   |
| 156 | Gallbladder & Extrahepatic Bile Ducts             |
| 157 | Pancreas  |
| 158 | Retroperitoneum & Peritoneum                      |
| 159 | Other III Defined Sites within Digestive Organs   |
| 160 | Nasal Cavities, Sinuses, Middle & Inner Ear       |
| 161 | Larynx  |
| 162 | Trachea, Bronchus & Lung                          |
| 163 | Pleura  |
| 164 | Thymus, Heart & Mediastinum                       |
| 165 | Other III Defined Sites Within Respiratory System |
| 169 | Hematopoietic & Reticuloendothelial System        |
| 170 | Bones, Joints & Articular Cartilage               |
| 171 | Connective, Subcutaneous & Other Soft Tissues     |
| 173 | Skin  |
| 174 | Female Breast                                     |
| 175 | Male Breast                                       |
| 179 | Uterus  |
| 180 | Cervix Uteri                                      |
| 181 | Placenta  |
| 182 | Corpus Uteri                                      |
| 183 | Ovary, Fallopian Tube & Broad Ligament            |
| 184 | Other & Unspecified Female Genital Organs         |
| 185 | Prostate Gland                                    |
| 186 | Testis  |
| 187 | Penis & Other Genital Organs                      |
| 188 | Urinary Bladder                                   |
| 189 | Kidney & Other Urinary Organs                     |
| 190 | Eye & Lacrimal Gland                              |
| 191 | Brain   |
| 192 | Other & Unspecified Parts of Nervous System       |
| 193 | Thyroid Gland                                     |
| 194 | Other Endocrine Glands                            |
| 195 | Other III-Defined Sites                           |
| 196 | Lymph Nodes                                       |
| 199 | Unknown Primary Sites                             |

## **APPENDIX VIII**

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